

Item Bank ID	410251	Item Bank Name	Information and Cyber Security	
Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
IPSec is designed to provide security at the _____ _____ operates in the transport mode or the tunnel mode.	Transport layer IPSec	Network layer SSL	Application layer PGP	Session layer SET
In IPSec ESP protocols stands for	Encryption Special Protocol	Encapsulating Security Payload	Encoding Special Payload	Entry Segment Protocol
In IPSec role of Security Association(SA) is	Security for data	Security from virus	Security from Intrusion	Security for Integrity
VPN is abbreviated as _____ _____ uses the idea of certificate trust levels.	Visual Private Network X509	Virtual Protocol Network PGP	Virtual Private Network KDC	Virtual Protocol Networking SSL
PGP offers _____ block ciphers for message encryption.	RSA	ECC	AES	IDEA
PGP have not used which cryptographic algorithms? i)DES ii) AES iii)RSA iv)Rabin	i), ii), iv)	i), iii), iv)	ii), iii), iv)	i), ii), iii)
Which one of the following is not a higher –layer SSL protocol?	Alert Protocol	Handshake Protocol	Alarm Protocol	Change Cipher Spec Protocol
Which protocol is used to convey SSL related alerts to the peer entity?	Alert Protocol	Handshake Protocol	Upper-Layer Protocol	Change Cipher Spec Protocol

Number of phases in the handshaking protocol?	2	3	4	5
In the Handshake protocol action, which is the last step of the Phase 2 : Server Authentication and Key Exchange?	Server_done	Server_key_exchange	Certificate_request	Crtificate_verify
In SSL the client_key_exchange message uses a pre master key of size –	48 bytes	56 bytes	64bytes	32bytes
Key Management in IPSec is done by _____	Tunnel Mode	Transport Mode	IKE	ESP
Oakley Protocol is used for _____	Encryption of Payload	Encryption Key Exchange	Generte Message Digest	Authorization Services
Typically, _____ can receive application data from any application layer protocol, but the protocol is normally HTTP.	SSL	TLS	Either A or B	Both A or B
_____ is designed to provide security and compression services to data generated from the application layer.	SSL	TLS	Either A or B	Both A or B
In SSL which one of the following is not a session state parameter?	Master Secret	Cipher Spec	Peer Certificate	Server Write Key
In SSL which protocol consists of only 1 bit?	Alert Protocol	Handshake Protocol	Upper-Layer Protocol	Change Cipher Spec Protocol
In the alert protocol the first byte takes the value 1 or 2 which corresponds to _____ and _____ respectively.	Select, Alarm	Alert, Alarm	Warning, Alarm	Warning, Fatal

Year: BE							
Subject Code:410251							
Name of the Subject: Information and Cyber Security							
Question No	Unit No	Question Text	Text for Option A	Text for Option B	Text for Option C	Text for Option D	Correct Option
1	UNIT I	Monitor User activity at on Internet and transmit it to someone else at background	Malware	Spyware	adware	worm	B
2		Attempting to gain access to a network using an employee's credentials is called the _____ mode of ethical hacking.	Local networking	Social engineering	Physical entry	Remote networking	A
3		_____ is purpose of a Denial of Service attack	Exploit a weakness in the TCP/IP stack	To execute a Trojan on a system	To overload a system so it is no longer operational	To shutdown services by turning them off	C
4		Sniffing is used to perform _____ fingerprinting.	Passive attack	Active attack	Passive banner grabbing	Scanned	A
5		Phishing is a form of _____.	Spamming	Identify Theft	Impersonation	Scanning	C
6		hybrid attacks is _____	An attempt to crack passwords using words that can be found in dictionary.	An attempt to crack passwords by replacing characters of a dictionary word with numbers and symbols.	An attempt to crack passwords using a combination of characters, numbers, and symbols.	An attempt to crack passwords by replacing characters with numbers and symbols.	B
7		What is the best statement for taking advantage of a weakness in the security of an IT system?	Threat	Attack	Exploit	Vulnerability	C
8		_____ means to prove access the system's resources	Message authentication	Entity authentication	Message confidentiality	Nonrepudiation	B
9		The full form of Malware is _____	Malfunctioned Software	Multipurpose Software	Malicious Software	Malfunctioning of Security	C
10		When there is an excessive amount of data flow, which the system cannot handle, _____ attack takes place.	Database crash attack	DoS (Denial of Service) attack	Data overflow Attack	Buffer Overflow attack	D
11		This is the model designed for guiding the policies of Information security within a company, firm or organization. What is "this" referred to here?	Confidentiality	Non-repudiation	CIA Triad	Authenticity	C
12		In general how many key elements constitute the entire security structure?	1	2	3	4	D
13		When you use the word _____ it means you are protecting your data from getting disclosed.	Confidentiality	Integrity	Availability	Authenticity	A
14		Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?	They help understanding hacking better	They are key elements to a security breach	They help understands security and its components better	They help to understand the cyber-crime better	C
15		This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here?	SQL injection	HTML Injection	Cross Site Scripting (XSS)	Cross Site Request Forgery (XSRF)	C

16		Which of them is not a wireless attack?	Eavesdropping	MAC Spoofing	Wireless Hijacking	Phishing	<b>D</b>			
17		Which method of hacking will record all your keystrokes?	Keyhijacking	Keyjacking	Keylogging	Keyboard monitoring	<b>C</b>			
18		These are a collective term for malicious spying programs used for secretly monitoring someone's activity and actions over a digital medium	Malware	Remote Access Trojans	Keyloggers	Spyware	<b>D</b>			
19		In which phase, the hackers install backdoors so that his/her ownership with the victim's system can be retained later?	Scanning	Maintaining control	Maintaining access	Gaining access	<b>C</b>			
20		Which of the following hacking tools and techniques hackers' do not use for maintaining access in a system?	Rootkits	Backdoors	Trojans	Wireshark	<b>D</b>			
1	Unit II	DES follows	Hash Algorithm	Caesars Cipher	Feistel Cipher Structure	SP Networks	<b>C</b>			
2		The DES algorithm has a key length of	128 Bits	32 Bits	64 Bits	16 Bits	<b>C</b>			
3		Use Caesar's Cipher to decipher the following "HQFUBSWHG WHAW"	ABANDONED LOCK	ENCRYPTED TEXT	ABANDONED TEXT	ENCRYPTED LOCK	<b>C</b>			
4		How many keys does the Triple DES algorithm use?	2	3	2 or 3	3 or 4	<b>C</b>			
5		In asymmetric key cryptography, the private key is kept by _____	sender	receiver	sender and receiver	all the connected devices to the network	<b>B</b>			
6		In cryptography, the order of the letters in a message is rearranged by _____	transpositional ciphers	substitution ciphers	both transpositional ciphers and substitution ciphers	quadratic ciphers	<b>A</b>			
7		_____ Data Encryption Standard (DES) operating modes can be used for large messages with the assurance that an error early in the encryption/decryption process won't spoil results throughout the communication?	Cipher Block Chaining (CBC)	Electronic Codebook (ECB)	Cipher Feedback (CFB)	Output Feedback (OFB)	<b>D</b>			
8		Which of the following is not a type of poly alphabetic cipher?	Auto key cipher	Hill cipher	Playfair cipher	Additive cipher	<b>D</b>			
9		Which attack is very efficient against Double-DES?	meet-in-the-middle	Linear cryptanalysis	Differential cryptanalysis	Statistical cryptanalysis	<b>A</b>			
10		the principle of the encryption using a key is _____	The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.	The key contains the secret function for encryption including parameters. Only a password can activate the key.	All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.	The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.	<b>C</b>			
11		For p = 11 and q = 17 and choose e=7. Apply RSA algorithm where PT message=88 and thus find the CT.	23	46	11	54	<b>C</b>			

12	The sub key length at each round of DES is _____	32	56	48	96	<b>B</b>			
13	Differential Cryptanalysis can be mounted on	DES encryption algorithm	AES encryption algorithm	RSA encryption algorithm	Diffie-Hellman key exchange algorithm	<b>A</b>			
14	Which of the following is not a block cipher operating mode?	ECB	CFB	CBF	CBC	<b>C</b>			
15	For the AES-128 algorithm there are _____ similar rounds and _____ round is different.	2 pair of 5 similar rounds ; every alternate	9 ; the last	8 ; the first and last	10 ; no	<b>B</b>			
16	AES uses a _____ bit block size and a key size of bits.	128; 128 or 256	64; 128 or 192	256; 128, 192, or 256	128; 128, 192, or 256	<b>D</b>			
17	How many rounds does the AES-192 perform?	10	12	14	16	<b>B</b>			
18	On comparing AES with DES, which of the following functions from DES does not have an equivalent AES function?	f function	permutation p	swapping of halves	XOR of subkey with function f	<b>C</b>			
19	Which of the following modes does not implement chaining or “dependency on previous stage computations”?	CTR, ECB	CTR, CFB	CFB, OFB	ECB, OFB	<b>A</b>			
20	What is the length of the cryptographic key used in the Data Encryption Standard (DES) cryptosystem?	56 bits	128 bits	192 bits	256 bits	<b>A</b>			
21	In the 1940s, a team of cryptanalysts from the United States successfully broke a Soviet code based upon a one-time pad in a project known as VENONA. What rule did the Soviets break that caused this failure?	Key values must be random	Key values must be the same length as the message.	Key values must be used only once.	Key values must be protected from physical disclosure	<b>A</b>			
22	For p = 11 and q = 17 and choose e=7. Apply RSA algorithm where Cipher message=11 and thus find the plain text.	88	122	143	111	<b>A</b>			
1	In which way does the Combined Encryption combine symmetric and assymmetric encryption?	First, the message is encrypted with symmetric encryption and afterwards it is encrypted assymmetrically together with the key.	The secret key is symmetrically transmitted, the message itself assymmetrically.	First, the message is encrypted with assymmetric encryption and afterwards it is encrypted symmetrically together with the key.	The secret key is assymmetrically transmitted, the message itself symmetrically.	<b>D</b>			
2	In Singular elliptic curve, the equation $x^3+ax+b=0$ does _____ roots.	does not have three distinct	has three distinct	has three unique	has three distinct unique	<b>A</b>			
3	When a hash function is used to provide message authentication, the hash function value is referred to as	Message Field	Message Digest	Message Score	Message Leap	<b>B</b>			
4	What is a one-way password file?	A scheme in which the password is jumbled and stored	A scheme in which the password is XOR with a key and stored	A scheme in which the hash of the password is stored	A scheme in which the password is passed through a PRF, which is then stored	<b>C</b>			
5	In RSA, $\Phi(n) =$ _____ in terms of p and q.	(p)/(q)	(p)(q)	(p-1)(q-1)	(p+1)(q+1)	<b>C</b>			
6	In the Phase 2 of the Handshake Protocol Action, the step server_key_exchange is not needed for which of the following cipher systems?	Fortezza	Anonymous Diffie-Hellman	Fixed Diffie-Hellman	RSA	<b>C</b>			

7	Unit III	The RSA signature uses which hash algorithm?	MD5	SHA-1	MD5 and SHA-1	Does not use hash algorithm	<b>C</b>			
8		In an RSA system the public key of a given user is e = 31, n = 3599. What is the private key of this user?	3031	2412	2432	1023	<b>A</b>			
9		For p = 11 and q = 17 and choose e=7. Apply RSA algorithm where PT message=88 and thus find the CT.	23	64	11	54	<b>C</b>			
10		Which of the following are used to generate a message digest by the network security protocols?	RSA & DES	SHA-1 & DES	SHA-1 & MD5	MD5 & DES	<b>C</b>			
11		Anarkali digitally signs a message and sends it to Salim. Verification of the signature by Salim requires	Anarkali's public key	Salim's public key.	Salim's private key.	Anarkali's private key	<b>A</b>			
12		The total number of keys required for a set of n individuals to be able to communicate with each other using secret key and public key crypto-systems, respectively are:	n(n-1) and 2n	2n and ((n(n - 1))/2)	((n(n - 1))/2) and 2n	((n(n - 1))/2) and n	<b>C</b>			
13		MD5 is a widely used hash function for producing hash value of	64 bits	128 bits	512 bits	1024 bits	<b>B</b>			
14		Using public key cryptography, X adds a digital signature σ to message M, encrypts <M, σ>, and sends it to Y, where it is decrypted. Which one of the following sequences of keys is used for the operations?	Encryption: X's private key followed by Y's private key; Decryption: X's public key followed by Y's public key	Encryption: X's private key followed by Y's public key; Decryption: X's public key followed by Y's private key	Encryption: X's public key followed by Y's private key; Decryption: Y's private key followed by X's public key	Encryption: X's private key followed by Y's public key; Decryption: Y's private key followed by X's private key	<b>D</b>			
15		A sender S sends a message m to receiver R, which is digitally signed by S with its private key. In this scenario, one or more of the following security violations can take place.	S can launch a birthday attack to replace m with a fraudulent message.	A third party attacker can launch a birthday attack to replace m with a fraudulent message.	R can launch a birthday attack to replace m with a fraudulent message.	R can launch a birthday attack	<b>A</b>			
16		What is the effectiveness of an n-bit hash value?	22n	2n	2-n	2-2n	<b>C</b>			
17		Certificate extensions fall into 3 categories. Which one of the following is not a Certificate extensions category?	Subject and Issuer attributes	Key and Policy information	Certification path constraints	All of the above are Certificate extensions categories	<b>D</b>			
1	UNIT IV	Which of the following is not an element/field of the X.509 certificates?	Issuer Name	Serial Modifier	Issuer unique Identifier	Signature	<b>B</b>			
2		What is the PGP stand for?	Permuted Gap Permission	Permuted Great Privacy	Pretty Good Permission	Permuted Great Permission	<b>C</b>			
3		PGP makes use of which cryptographic algorithm?	DES	AES	RSA	Rabin	<b>C</b>			
4		Which Authentication Encryption approach is taken by the IPSec protocol?	Authentication followed by encryption (A→E)	Hashing followed by encryption (H→E)	Encryption followed by authentication (E→A)	Independently encrypt and authenticate (E + A)	<b>C</b>			
5		IPSec is designed to provide security at the _____	transport layer	network layer	application layer	application layer	<b>B</b>			

6		PGP encrypts data by using a block cipher called _____	international data encryption algorithm	private data encryption algorithm	internet data encryption algorithm	local data encryption algorithm	<b>A</b>			
7		Typically, _____ can receive application data from any application layer protocol, but the protocol is normally HTTP.	SSL	TLS	either (a) or (b)	either (a) or (b)	<b>D</b>			
8		In tunnel mode, IPSec protects the _____	Entire IP packet	IP header	IP payload	IP trailer	<b>A</b>			
9		Which of the following field in IPv4 datagram is not related to fragmentation?	Flags	Offset	TOS	Identifier	<b>C</b>			
10		Which one of the following is not a higher –layer SSL protocol?	Alert Protocol	Handshake Protocol	Alarm Protocol	Change Cipher Spec Protocol	<b>C</b>			
11		In the SSL Protocol, each upper layer message if fragmented into a maximum of _____ bytes.	$2^{16}$	$2^{32}$	$2^{14}$	$2^{12}$	<b>C</b>			
12		IPsec services are available in _____ Layer.	Application	Data Link	Network	Transport	<b>C</b>			
13		Encapsulating Security Payload (ESP) belongs to which Internet Security Protocol?	Secure Socket Layer Protocol	Secure IP Protocol	Secure Http Protocol	Transport Layer Security Protocol	<b>B</b>			
14		Suppose that everyone in a group of N people wants to communicate secretly with the N–1 others using symmetric key cryptographic system. The communication between any two persons should not be decodable by the others in the group. The number of keys required in the system as a whole to satisfy the confidentiality requirement is	$2N$	$N(N-1)$	$N(N-1)/2$	$(N - 1)2$	<b>C</b>			
15		Which protocol is used to convey SSL related alerts to the peer entity?	Alert Protocol	Handshake Protocol	Upper-Layer Protocol	Change Cipher Spec Protocol	<b>A</b>			
16		Which of the statements are not true to classify VPN systems?	Protocols used for tunnelling the traffic	Whether VPNs are providing site-to-site or remote access connection	Securing the network from bots and malwares	Levels of security provided for sending and receiving data privately	<b>C</b>			
17		The DSS signature uses which hash algorithm?	MD5	SHA-2	SHA-1	Does not use hash algorithm	<b>C</b>			
18		What is the size of the RSA signature hash after the MD5 and SHA-1 processing?	42 bytes	32 bytes	36 bytes	48 bytes	<b>C</b>			
19		Which types of VPNs are used for corporate connectivity across companies residing in different geographical location?	Remote access VPNs	Site-to-site VPNs	Peer-to-Peer VPNs	Router-to-router VPNs	<b>A</b>			
20		Why did SSL certificate require in HTTP?	For making security weak	For making information move faster	For encrypted data sent over HTTP protocol	For sending and receiving emails unencrypted	<b>C</b>			
21		In SSL, what is used for authenticating a message?	MAC (Message Access Code)	MAC (Message Authentication Code)	MAC (Machine Authentication Code)	MAC (Machine Access Code)	<b>B</b>			



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In the alert protocol the first byte takes the value 1 or 2 which corresponds to _____ and _____ respectively.	Select, Alarm	Alert, Alarm	Warning, Alarm	Warning, Fatal

## Cyber Security

1. What is the full form of LDAP?

- A Light Weight Directory Access Provider
- B Light Weight Directory Access Protocol
- C Light Weight Directory Access Program
- D Light Weight Directory Access Protection

Ans. b

2. What is called the collective terms of malicious software, such as viruses, worms and trojans?

- A Spam
- B Phishing
- C Malware
- D Harm

Ans. c

3. What is the full form of CIA under information security?

- A Confidentiality Integrity Availability
- B Criminal Investigation Agency
- C Cost Information Agency
- D Credit Integrity Assement

Ans. a

4. What is called periodic assessment of security vulnerability in computer system?

- A Threat
- B Attack
- C Hacking
- D Security audit

Ans. d

5. What is called a single point of access for several networking services?

- A Phishing
- B Web service
- C Directory service
- D Worms

Ans. c

6. Which activities endanger the sovereignty and integrity of nation?

- A Cyber Terrorism
- B Cyber vandalism
- C Cyber squatting
- D Carding

Ans. a

7. Which crime involves the use of computer networks to create, distribute or access materials that sexually exploit underage persons?

- A Assault by Threat
- B Cyber squatting
- C Cyber vandalism
- D Child pornography

Ans. d

8. Which method go through all the files or network elements with an intention to detect something unusual?

- A Probing
- B Phishing
- C Infecting
- D Scanning

Ans. d

9. Victims of cyber attack might loose \_\_\_\_\_.

- (a) data
- (b) money
- (c) both a & b
- (d) none of them

Ans. c

10. Under information security, any device having \_\_\_\_\_ is classified as a computing device.

- (a) processor
- (b) memory
- (c) both a & b
- (d) neither a nor b

Ans. c

11. Under information security, CIA stands for \_\_\_\_\_.

- (a) Criminal Investigation Agency
- (b) Confidentiality, Integrity, Availability
- (c) Cost Information Agency
- (d) Credit Integrity Assessment

Ans. b

12. Script files sent mostly through email attachment to attack host computer are called \_\_\_\_\_.

- (a) Worms
- (b) Phishing attacks
- (c) Trojans
- (d) Computer Viruses

Ans. a

13. Attacking the victims through fake URL resembling that of a valid financial Institution is called\_\_\_\_\_.

- (a) Worms
- (b) Phishing attack
- (c) Trojans
- (d) Computer Viruses

Ans. b

14. Getting the user ID and password from a victim through dubious program is called \_\_\_\_\_ attack.

- (a) Worms
- (b) Phishing attack
- (c) Trojan
- (d) Computer Viruses

Ans. c

15. A malicious program spreading through Internet and storage media and attacking the data in victims computer is called\_\_\_\_\_.

- (a) Worms
- (b) Phishing attack
- (c) Trojan
- (d) Computer Virus

Ans. d

16. Potential weaknesses in IT infrastructure through which a cyber attack might occur is called \_\_\_\_\_.

- (a) strength
- (b) antivirus
- (c) vulnerability
- (d) port

Ans. c

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SOLVES YOUR PROBLEM

17. Vulnerability for cyber attack may be in\_\_\_\_\_.

- (a) operating system
- (b) application software
- (c) IT infrastructure
- (d) all of them

Ans. d

18. To protect the network infrastructure from vulnerability, \_\_\_\_\_ is setup.

- (a) firewall
- (b) Internet security software
- (c) both a & b
- (d) none of them

Ans. c

19. The person using vulnerability in operating system or application software or IT infrastructure to intrude in to the computer of a victim is called \_\_\_\_\_.

- (a) hacker
- (b) cracker
- (c) maker
- (d) taker

Ans. a

20. Periodic assessment of security vulnerability in computer systems is called \_\_\_\_\_ audit.

- (a) threat
- (b) attack
- (c) hacking
- (d) security

Ans. d

21. The security audit team \_\_\_\_\_ to keep the computers safe from cyber attacks.

- (a) assesses vulnerability
- (b) decides the safety measures through hardware and software
- (c) considers latest threat scenario and implements information safety
- (d) all of them

Ans. d

22. To ensure information safety, \_\_\_\_\_ should be implemented.

- (a) physical access security
- (b) password access security
- (c) secure IT infrastructure
- (d) all of them

Ans. d

23. A single point of access for several networking services is called \_\_\_\_\_.

- (a) Directory Service
- (b) web server
- (c) email server
- (d) none of them

Ans. a

**HEETSON**

SOLVES YOUR PROBLEM

24. Directory service permits security administrators to \_\_\_\_\_.

- (a) concentrate on security of directory service instead of individual machines
- (b) create new vulnerabilities
- (c) damage the security of computers
- (d) create new virus

Ans. a

25. Directory service should be able to \_\_\_\_\_ in the infrastructure.

- (a) include new services
- (b) easily search for information in the network
- (c) the information stored on the directory server should be accessible from any operating system
- (d) all of them

Ans. d

26. LDAP in directory service stands for \_\_\_\_\_.

- (a) Light Weight Director Access Provider
- (b) Light Weight Director Access Protocol

- (c) Light Weight Director Access Provider
- (d) Light Weight Director Access Protection

Ans. b

27. Protecting access to a computer through \_\_\_\_\_ is called access control.

- (a) physical restriction of entry
- (b) password security for login
- (c) both a & b
- (d) none of them

Ans. c

28. Security should be implemented at the stage of \_\_\_\_\_ in software.

- (a) development stage
- (b) entire life cycle
- (c) Sofware Development Life Cycle (SDLC)
- (d) all of them

Ans. d

29. SDLC in software development stands for \_\_\_\_\_.

- (a) Software Development Life Circus
- (b) Software Development Life Cycle
- (c) Software Drafting Life Cycle
- (d) Software Development Lead Cycle

Ans. b

30. Protection from \_\_\_\_\_ of source code means non-disclosure of the source code to outsiders.

- (a) disclosure
- (b) alteration
- (c) destruction
- (d) log of changes (whois making request)

Ans. a

31. Protection from \_\_\_\_\_ of source code means allotting the right to edit the source code to authorized persons only.

- (a) disclosure
- (b) alteration
- (c) destruction
- (d) log of changes (whois making request)

Ans. b

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32. Protection from \_\_\_\_\_ of source code means protection of any individual from destroying the software source code.

- (a) disclosure
- (b) alteration
- (c) destruction
- (d) log of changes (whois making request)

Ans. c

33. Protection from \_\_\_\_\_ of source code means recording all changes made to the source code and the person making such changes.

- (a) disclosure
- (b) alteration
- (c) destruction

(d) log of changes (who is making request)

Ans. d

32. \_\_\_\_\_ of access rights in source code development means verification of role before permitting access to source code.

- (a) verification
- (b) maintaining historical records

(c) error handling  
(d) log of changes (whois making request)

Ans. a

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- (a) verification
- (b) maintaining historical records

(c) error handling  
(d) log of changes (whois making request)

Ans. b

34. \_\_\_\_\_ in source code development means handling of configuration errors, session errors and exceptions.

- (a) verification
- (b) maintaining historical records

(c) error handling  
(d) log of changes (whois making request)

Ans. c

35. Protecting the data divulged by customers from unauthorized access is called \_\_\_\_\_.

- (a) privacy protection
- (b) audit

(c) antivirus  
(d) vulnerability

Ans a

36. Information on criminal records of individuals, financial data of companies, genetic information, address, mobile number, email ID, record of web surfing behaviour, record of credit card, record of debit card, netbanking details, etc. are classified under \_\_\_\_\_.

- (a) privacy protection
- (b) audit

(c) antivirus  
(d) vulnerability

Ans. a

37. Information security audit may be conducted with reference to \_\_\_\_\_ .

- (a) vulnerabilities
- (b) threats
- (c) preventive measures

(d) all of them

Ans. d

38. Information security audit analyses events of past threats to formulate \_\_\_\_\_ .

- (a) security measures
- (b) safe practices

(c) software protection

(d) all of them

Ans. d

39. Any single employee \_\_\_\_\_ hold all data needed for making a complete financial transaction.

(a) should not

(b) should

(c) may

(d) might

Ans. a

40. IT audit of the firm should be conducted periodically, which may be every\_\_\_\_\_ .

(a) fortnight

(b) month

(c) quarter

(d) all of them

Ans. d

41. IT act aims to\_\_\_\_\_ .

(a) protect victims of cyber fraud

(b) punish misbehaviour involving technology

(c) both a & b

(d) none of them

Ans. c

42. Section \_\_\_\_\_ of IT Act imposes fine up to 2Lakh and imprisonment up to 2 years for tampering with computer source documents.

(a) 65

(b) 66

(c) 66B

(d) 66C

Ans. a

43. Section \_\_\_\_\_ of IT Act imposes fine up to 5Lakh and imprisonment up to 3 years for hacking.

(a) 65

(b) 66

(c) 66B

(d) 66C

Ans. b

44. Section \_\_\_\_\_ of IT Act imposes fine up to 1Lakh and imprisonment up to 3 years for receiving stolen computer or mobile device.

(a) 65

(b) 66

(c) 66B

(d) 66C

Ans. c

45. Section \_\_\_\_\_ of IT Act imposes fine up to 1Lakh and imprisonment up to 3 years for misuse of password.

(a) 65

(b) 66

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- (c) 66B
  - (d) 66C
- Ans. d

46. Section \_\_\_\_\_ of IT Act imposes fine up to 1Lakh and imprisonment up to 3 years for cheating with computer.

- (a) 66D
- (b) 66E
- (c) 66F
- (d) 67

Ans. a

47. Section of IT Act imposes fine up to 2Lakh and imprisonment up to 3 years for publishing private images of others.

- (a) 66D
- (b) 66E
- (c) 66F
- (d) 67

Ans. b

48. Section \_\_\_\_\_ of IT Act imposes life imprisonment for cyber terrorism.

- (a) 66D
- (b) 66E
- (c) 66F
- (d) 67

Ans. c

49. Section \_\_\_\_\_ of IT Act imposes fine up to 1Lakh and imprisonment up to 5 years for publishing obscene content.

- (a) 66D
- (b) 66E
- (c) 66F
- (d) 67

Ans. d

50. Section \_\_\_\_\_ of IT Act imposes fine up to 1Lakh and imprisonment up to 7 years for publishing sexual content.

- (a) 67A
- (b) 67B
- (c) 67C
- (d) 68

Ans. a

51. Section \_\_\_\_\_ of IT Act imposes fine up to 1Lakh and imprisonment up to 7 years for publishing child porn.

- (a) 67A
- (b) 67B
- (c) 67C
- (d) 68

Ans. b

52. Section \_\_\_\_\_ of IT Act imposes undefined fine amount and imprisonment up to 3 years for failure to maintain records by operator.

- (a) 67A
- (b) 67B
- (c) 67C
- (d) 68

Ans. c

53. Section\_\_\_\_\_ of IT Act imposes fine up to 2Lakh and imprisonment up to 3 years for failure to comply with orders.

- (a) 67A
- (b) 67B
- (c) 67C
- (d) 68

Ans. d

54. Section\_\_\_\_\_ of IT Act imposes undefined fine amount and imprisonment up to 7 years for refusal to decrypt data.

- (a) 69
- (b) 70
- (c) 67C
- (d) 68

Ans. a

55. Section\_\_\_\_\_ of IT Act imposes fine up to 1Lakh and imprisonment up to 3 years for disclosure of wrong information.

- (a) 69
- (b) 70
- (c) 67C
- (d) 68

Ans. b

56. Fine up to Rs.\_\_\_\_\_ may be imposed under sections 66B (receiving stolen mobile/computer), 66C (password misuse), 66D (cheating with computer), 67 (publishing obscene content), 67A (publishing sexual content), 67B (publishing child porn) & 70 (disclosure of wrong information) of the IT Act, 2000.

- (a) 1Lakh
- (b) 2Lakh
- (c) 5Lakh
- (d) none of them

Ans. a

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57. Fine up to Rs.\_\_\_\_\_ may be imposed under sections 65 (tampering with computer), 66E (publishing private images of others) & 68 (failure to comply with orders) of the IT Act, 2000.

- (a) 1Lakh
- (b) 2Lakh
- (c) 5Lakh
- (d) none of them

Ans. b

58. Fine up to Rs.\_\_\_\_\_ may be imposed under section 66 (hacking) of the IT Act, 2000.

- (a) 1Lakh
- (b) 2Lakh
- (c) 5Lakh
- (d) none of them

Ans. c

59. Imprisonment up to \_\_\_\_\_ years may be imposed under section 65 (tampering with computer documents) of the IT Act, 2000.

- (a) 2
- (b) 3
- (c) 5
- (d) 7

Ans. a

60. Imprisonment up to \_\_\_\_\_ years may be imposed under sections 66 (hacking), 66B (receiving stolen computer/ mobile), 66C (misuse of password), 66D (cheating with computer), 66E (publishing private images of others), 67C (failure to maintain records by operator), 68 (failure to comply with orders) & 70 (disclosure of wrong information) of the IT Act, 2000.

- (a) 2
- (b) 3
- (c) 5
- (d) 7

Ans. b

61. Imprisonment up to \_\_\_\_\_ years may be imposed under section 67 (publishing obscene content) of the IT Act, 2000.

- (a) 2
- (b) 3
- (c) 5
- (d) 7

Ans. c

62. Imprisonment up to \_\_\_\_\_ years may be imposed under sections 67A (publishing sexual content) & 69 (refusal to decrypt data) of the IT Act, 2000.

- (a) 2
- (b) 3
- (c) 5
- (d) 7

Ans. d

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63. Imprisonment up to \_\_\_\_\_ years may be imposed under section 66F (cyber terrorism) of the IT Act, 2000.

- (a) Life
- (b) 3
- (c) 5
- (d) 7

Ans. a

64. \_\_\_\_\_ can keep unwanted ads to show up?

- a) Adware
- b) Hardware
- c) Malware
- d) Spyware

Ans.a

65. There are broadly how many categories of IT risks?

- a) 3

- b) 5
- c) 2
- d) 7

66. \_\_\_\_\_ servers provides a central storeroom for storing and managing information?

- a) Clint
- b) Directory
- c) Post
- d) Group

Ans. b

67. \_\_\_\_\_ generally refers to a system that can control, monitor and restrict the movement of people, assets or vehicles, in, out and around a building or site?

- a) Access control
- b) Security Guard
- c) Form Denial
- d) None

Ans. a

68. Which chapter of the IT awareness Act talks about electronic governance?

- a) 4
- b) 3
- c) 2
- d) 1

Ans. b

69. Chapter 7 of the IT awareness act deals with?

- a) E- Commerce
- b) Electronic Governance
- c) Digital Signature
- d) None

Ans. c

70. Which chapter of the IT awareness act talks about penalties and adjudication?

- a) 5
- b) 7
- c) 11
- d) 9

Ans. d

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71. The IT awareness act addresses which of the following issues?

- a) Legal recognition of electronic documents
- b) Legal Recognition of digital signatures
- c) Offenses and contraventions
- d) All of the above

Ans. d

72. Why would a hacker use a proxy server?

- a) To create a stronger connection with the target
- b) To create a ghost server on the network.
- c) To obtain a remote access connection.
- d) To hide malicious activity on the network.

Ans. d

73. What type of symmetric key algorithm using a streaming cipher to encrypt information?

- a) RC4
- b) Blowfish
- c) SHA
- d) MD5

Ans. a

74. Which of the following is not a factor in securing the environment against an attack on security?

- a) The education of the attacker
- b) The system configuration
- c) The network architecture
- d) The business strategy of the company

Ans. d

75. What type of attack uses a fraudulent server with a relay address?

- a) NTLM
- b) MITM
- c) NetBIOS
- d) SMB

Ans. b

76. To hide information inside a picture, what technology is used?

- a) Rootkits
- b) Bitmapping
- c) Steganography
- d) Image Rendering

Ans. c

77. Which phase of hacking performs actual attack on a network or system?

- a) Reconnaissance
- b) Maintaining Access
- c) Scanning
- d) Gaining Access

Ans. d

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78. Attempting to gain access to a network using an employee's credential is called the \_\_\_\_\_ mode of ethical hacking.

- a) Local networking
- b) Social engineering
- c) Physical entry
- d) Remote networking

Ans. a

79. Which federal code applies the consequences of hacking activities that disrupt subway transit system?

- a) Electronic Communications Interception of Oral Communications
- b) 18 U.S.C § 1029
- c) Cyber security Enhancement Act 2002
- d) 18 U.S.C. § 1030

Ans. c

80. Which ports should be blocked to prevent null session enumeration?

- a) Port 120 and 445
- b) Port 135 and 136
- c) Port 110 and 137
- d) Port 135 and 139

Ans. d

81. The first phase of hacking an IT system is compromise of which foundation of security?

- a) Availability
- b) Confidentiality
- c) Integrity
- d) Authentication

Ans. b

82. How is IP address spoofing detected?

- a) Installing and configuring a IDS that can read the IP header
- b) Comparing the TTL value of the actual and spoofed addresses
- c) Implementing a firewall to the network
- d) Identify all TCP sessions that are initiated but does not complete successfully

Ans. b

83. Which of the following is not a typical characteristic of an ethical hacker?

- a) Excellent knowledge of windows.
- b) Understands the process of exploiting network vulnerabilities.
- c) patience, persistence and perseverance.
- d) Has the highest level of security for the organization.

Ans. d

84. What type of rootkit will patch, hook, or replace the version of system call in order to hide information?

- a) Library level rootkits
- b) Kernel level rootkits
- c) System level rootkits
- d) Application level rootkits

Ans. a

85. What is the purpose of a Denial service attack?

- a) Exploit a weakness in the TCP/IP stack
- b) To execute a Trojan on a system
- c) To overload a system so it is no longer operational
- d) To shutdown services by turning them off

Ans. c

86. Which of the following will allow footprinting to be conducted without detection?

- a) PingSweep
- b) Traceroute
- c) War Dialers
- d) ARIN

Ans. d

87. Performing hacking activities with the intent of gaining visibility for an unfair situation is called\_\_\_\_\_.

- a) Cracking
- b) Analysis
- c) Hacktivism
- d)Exploitation

Ans. c

88. What is the most important activity in system hacking?

- a) Information gathering
- b) Cracking passwords
- c) Escalating privileges
- d) Covering tracks

Ans. b

89. Phishing is a form of \_\_\_\_\_.

- a) Spamming
- b) Identity Theft
- c) Impersonation
- d) Scanning

Ans. c

90. Why would HTTP Tunneling be used?

- a) To identify proxy servers
- b) Web activity is not scanned
- c) To bypass a firewall
- d) HTTP is an easy protocol to work with

Ans. c

91. Keyloggers are a form of \_\_\_\_\_.

- a) Spyware
- b) Shoulder surfing
- c) Trojan
- d) Social engineering

Ans. a

92. What are hybrid attacks?

- a) An attempt to crack passwords using words that can be found in dictionary.
- b) An attempt to crack passwords by replacing characters of dictionary word with numbers and symbols.
- c) An attempt to crack passwords using a combination of characters, numbers, and symbols.
- d) An attempt to crack passwords by replacing characters with numbers and symbols.

Ans. b

93. What is the best statement for taking advantage of a weakness in the security of an IT system?

- a) Threat
- b) Attack
- c) Exploit
- d) Vulnerability

Ans. c

94. Having individuals provide personal information to obtain a free offer provided through the internet is considered what type of social engineering?

- a) Web-based
- b) Human-based
- c) User-based
- d) Computer-based

Ans. d

95. \_\_\_\_\_ framework made cracking of vulnerabilities easy like point and click.

- a) .Net
  - b) Metasploit
  - c) Zeus
  - d) Ettercap
- Ans. b

96. \_\_\_\_\_ is a popular tool used for discovering networks as well as in security auditing.

- a) Ettercap
  - b) Metasploit
  - c) Nmap
  - d) Burp Suit
- Ans. c

97. Which of the below mentioned tool is used for Wi-Fi hacking?

- a) Wireshark
  - b) Nessus
  - c) Aircrack-ng
  - d) Snort
- Ans. c

98. Aircrac-ng is used for \_\_\_\_\_

- a) Firewall bypassing
  - b) Wi-Fi attacks
  - c) Packet filtering
  - d) System password cracking
- Ans. b

99. \_\_\_\_\_ is a web application assessment security tool.

- a) LC4
  - b) WebInspect
  - c) Ettercap
  - d) QualysGuard
- Ans. b

100. \_\_\_\_\_ is a password recovery and auditing tool.

- a) LC3
  - b) LC4
  - c) Network Stumbler
  - d) Maltego
- Ans. b

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SOLVES YOUR PROBLEM

101. All of the following are example of real security and privacy threats except:

- a) Hackers
  - b) Virus
  - c) Spam
  - d) Worm
- Ans. c

102. Viruses are \_\_\_\_\_.

- a) Man made
- b) Naturally occur
- c) Machine made
- d) All of the above

Ans. a

103. Firewall is a type of \_\_\_\_\_.

- a) Virus
- b) Security Threat
- c) Worm
- d) None of the above

Ans. d

104. Unsolicited commercial email is known as \_\_\_\_\_.

- a) Spam
- b) Malware
- c) Virus
- d) Spyware

Ans. a

105. Which of the following is not an external threat to a computer or a computer network.

- a) Ignorance
- b) Trojan horses
- c) Adware
- d) Crackers

Ans. a

106. When a person is harassed repeatedly by being followed, called or be written to he/ she is target of

- a) Bullying
- b) Stalking
- c) Identity theft
- d) Phishing

Ans. b

107. Which of the following is a class of compute threat

- a) Phishing
- b) Soliciting
- c) DoS attacks
- d) Stalking

Ans. c

108. A license allow a user to use copyrighted material.

- a) True
- b) False

Ans. a

109. It allow a visited website to store its own information about a user on the user's computer.

- a) Spam
- b) Cookies
- c) Malware
- d) Adware

Ans. b

110. It is stealing ideas or creations of others.

- a) Plagiarism
- b) Intellectual Property Rights

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- c) Piracy
- d) All of the above

Ans. d

111. Hacking a computer is always illegal and punishable by law.

- a) True
- b) False

Ans. a

112. Exploring appropriate and ethical behaviours related to online environments and digital media.

- a) Cyber ethics
- b) Cyber security
- c) Cyber safety
- d) Cyber law

Ans. a

113. Which of the following is a digital certificate standard?

- a) X.508
- b) X.509
- c) D.509
- d) None of the Above

Ans. b

114. Which of the following technique is used to verify the integrity of the message?

- a) Message digest
- b) Digital signature
- c) Decryption algorithm
- d) Protocol

Ans. a

115. Which of the following principle is violated if computer system is not accessible?

- a) Confidentiality
- b) Availability
- c) Access Control
- d) Authentication

Ans. b

116. The certificate Authority signs the digital certificate with

- a) User's public key
- b) User's Private key
- c) It's own public key
- d) It's own private key

Ans. d

117. Unauthorized access is a network \_\_\_\_\_ issue.

- a) Performance
- b) Reliability
- c) Security
- d) none of the above

Ans. c

118. A virus is a network \_\_\_\_\_ issue.

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- a) Performance
- b) Reliability
- c) Security
- d) none of the above

Ans. c

119. Encryption techniques improve a network's \_\_\_\_\_

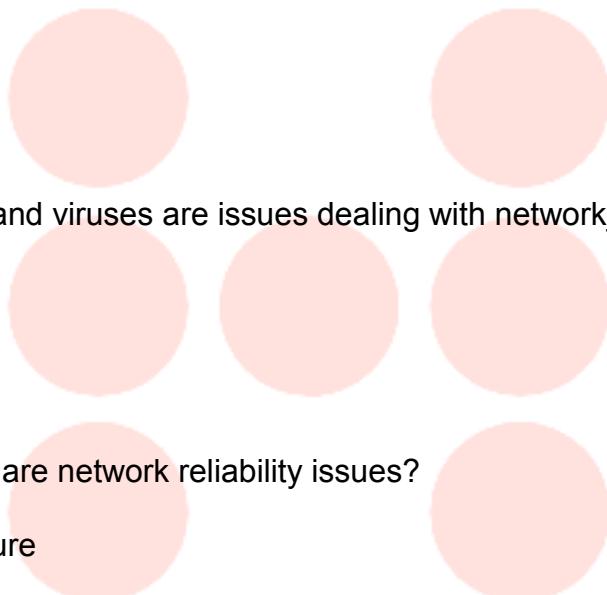
- a) Performance
- b) Reliability
- c) Security
- d) Longevity

Ans. c

120. A \_\_\_\_\_ is illicitly introduced code that damages a network device.

- a) Protocol
- b) Virus
- c) Catastrophe
- d) Medium

Ans. b



121. Unauthorized access and viruses are issues dealing with network \_\_\_\_\_

- a) Performance
- b) Reliability
- c) Security
- d) none of the above

Ans. c

122. Which of the following are network reliability issues?

- a) frequency of failure
- b) recovery time after a failure
- c) catastrophe
- d) all of the above

Ans. d

123. When a hacker penetrates a network, this is a network \_\_\_\_\_ issue

- a) Performance
- b) Reliability
- c) Security
- d) none of the above

Ans. c

**HEETSON**

SOLVES YOUR PROBLEM

124. A company changes its network configuration so that only one router instead of two can access the internet. The greatest impact will be on the \_\_\_\_\_ of the network.

- a) a) Performance
- b) Reliability
- c) Security
- d) none of the above

Ans. c

125. A company requires its users to change passwords every month. This improves the \_\_\_\_\_ of the network.

- a) Performance
- b) Reliability

- c) Security
- d) none of the above

Ans. c

126. A company requires each employee to power off his computer at the end of the day. This rule was implanted to make the network \_\_\_\_\_.

- a) Perform better
- b) more reliable
- c) more secure
- d) more error-free

Ans. c

127. For secure EDI (Electronic Data Interchange ) transmission on internet.

- a) MIME is used
- b) S/MIME is used
- c) PGP is used
- d) TCP/IP is used

Ans. b

128. A firewall is a

- a) Wall build to prevent fires from damaging a corporate intranet
- b) security device deployed at the boundary of a company to prevent unauthorized physical access
- c) security device deployed at the boundary of a corporate intranet to protect it from unauthorized access
- d) device to prevent all accesses from the internet to the corporate intranet

Ans. c

129. A firewall may be implemented in

- a) routers which connect intranet to internet
- b) bridges used in an intranet
- c) expensive modern
- d) user's application programs

Ans. a

130. Firewall as part of a router program

- a) filters only packets coming from internet
- b) filters only packets going to internet
- c) filters packets travelling from and to the intranet from the internet
- d) ensures rapid traffic of packets for speedy e-Commerce

Ans. c

131. Main function of proxy application gateway firewall is

- a) to allow corporate users to use efficiently all internet services
- b) to allow intranet users to securely use specified internet services
- c) to allow corporate users to use all internet services
- d) to prevent corporate users from using internet services

Ans. b

132. Proxy application gateway

- (i) acts on behalf of all intranet users wanting to access internet securely
- (ii) monitors all accesses to internet and allows access to only specified IP addresses
- (iii) disallows use of certain protocols with security problems

(iv) disallow all internet users from accessing intranet

- A. i, ii
- B. i, ii, iii
- C. i, ii, iii, iv
- D. ii, iii, iv

Ans. b

133. A hardened firewall host on an intranet

- (i) has a proxy application gateway program running on it
- (ii) Allow specified internet users to access specified services in the intranet
- (iii) Initiates all internet activities requested by client and monitors them
- (iv) prevents outsiders from accessing IP addresses within the intranet

- A. i, ii
- B. i, ii, iii
- C. i, ii, iii, iv
- D. ii, iii, iv

Ans. c

134. By encryption of a text we mean

- A. compressing it
- B. expanding it
- C. scrambling it to preserve its security
- D. hashing it

Ans. c

135. Encryption is required to

- (i) protect business information from eavesdropping when it is transmitted on internet
- (ii) efficiently use the bandwidth available in PSTN
- (iii) to protect information stored in companies' databases from retrieval
- (iv) to preserve secrecy of information stored in databases if an unauthorized person retrieves it

- A. i and ii
- B. ii and iii
- C. iii and iv
- D. i and iv

Ans. d

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136. Encryption can be done

- a) only on textual data
- b) only on ASCII coded data
- c) on any bit string
- d) only on mnemonic data

Ans. c

137. By symmetric key encryption we mean

- a) one private key is used for both encryption and decryption
- b) private and public key used are symmetric
- c) only public keys are used for encryption
- d) only symmetric key is used for encryption

Ans. a

138. The Acronym DES stands for

- a) Digital Evaluation System
- b) Digital Encryption Standard

- c) Digital Encryption System
- d) Double Encryption Standard

Ans. B

139. DES

- (i) is a symmetric key encryption method
- (ii) guarantees absolute security
- (iii) is implemented as hardware VLSI chip
- (iv) is a public key encryption method

- a) i and ii
- b) ii and iii
- c) i and iii
- d) iii and iv

Ans. c

140. Triple DES

- a) is a symmetric key encryption method
- b) guarantees excellent security
- c) is implementable as a hardware VLSI chip
- d) is public key encryption method with three keys.

Ans. b

141. Message can be sent more securely using DES by

- a) encryption plain text by a different randomly selected key for each transmission
- b) encryption plain text by a different random key for each message transmission and sending the key to the receiver using a public key system
- c) using an algorithm to implement DES instead of using hardware
- d) designing DES with high security and not publicizing algorithm used by it

Ans. b

142. DES and public key algorithm are combined

- (i) to speed up encryption message transmission
  - (ii) to ensure higher security by using different key for each transmission
  - (iii) as a combination is always better than individual system
  - (iv) as it is required in e-Commerce
- a) i and ii
  - b) ii and iii
  - c) iii and iv
  - d) i and iv

Ans. a

143. A digital signature is

- a) a bit string giving identity of a correspondent
- b) a unique identification of a sender
- c) an authentication of an electronic record by typing it uniquely to a key only a sender knows
- d) an encryption signature of a sender

Ans. c

144. A digital signature is required

- (i) to tie an electronic message to the sender's identity
- (ii) for non repudiation of communication by a sender
- (iii) to prove that a message was sent by the sender in a court of law
- (iv) in all e-mail transactions

- a) i and ii
- b) i, ii, iii
- c) i, ii, iii, iv
- d) ii, iii, iv

Ans. b

145. The responsibility of a certification authority for digital signature is to authenticate the

- a) hash function used
- b) private keys of subscribers
- c) public keys of subscribers
- d) key used in DES

Ans. c

146. Certification of Digital signature by an independent authority is need because

- a) it is safe
- b) it gives confidence to a business
- c) the authority checks and assures customers that the public key indeed belongs to the business which claims its ownership
- d) private key claimed by a sender may not be actually his

Ans. c

147. The secure Electronic Transaction protocol is used for

- a) credit card payment
- b) cheque payment
- c) electronic cash payment
- d) payment of small amounts for internet services

Ans. a

148. In SET protocol a customer encrypts credit card number using

- a) his private key
- b) bank's public key
- c) bank's private key
- d) merchant's public key

Ans. b

149. One of the problems with using SET protocol is

- a) the merchant's risk is high as he accepts encrypted credit card
- b) the credit card company should check digital signature
- c) the bank has to keep a database of the public keys of all customers
- d) the bank has to keep a database of digital signature of all customers

Ans. c

150. What happens to your data when it is encrypted?

- a) it is transferred to a third party, encoded, then sent back.
- b) it is compressed, renamed, and archived.
- c) it is sent through a series of supercomputers to be compressed multiple times.
- d) it is recorded to retain privacy from third-parties.

Ans. d

151. What is a computer virus?

- a) A virus is the same as a cookie in that it is stored on your computer against your permission.
- b) A virus is friendly software that is simply mislabeled.
- c) malicious software that merely stays dormant on your computer.

d) malicious software that inserts itself into other programs.

Ans. d

152. How to avoid Man-in-the-middle attacks?

- a) Accept every SSL certificate, even the broken ones
- b) Use connection without SSL
- c) Use HTTPS connections and verify the SSL certificate
- d) None of the above

Ans. c

153. What happens during the TCP attack, Denial of Service?

- a) A virus is sent to disable their dos prompt.
- b) Viruses are sent to their ISP to deny them tech support.
- c) A worm is loaded onto the victim's computer to disable their keyboard.
- d) information is repeatedly sent to the victim to consume their system resources, causing them to shut down.

Ans. d

154. What is internet protocol security?

- a) Methods to secure internet protocol (IP) communication.
- b) Ways to disconnect your router in an emergency
- c) Methods to secure to disconnected computer.
- d) Methods to secure your documents from physical breaches

Ans. a

155. Which of the following is a valid cyber/internet security requirement?

- a) Authentication
- b) Integrity
- c) Confidentiality
- d) All of the given option are correct

Ans. d

156. Digital signatures provide which of the following?

- a) Authentication
- b) Non-repudiation
- c) Integrity protection
- d) All of the given option are correct

Ans. d

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157. In which of the following protocols does a website (if accessed using the protocol) encrypt the session with a digital certificate?

- a) TCP
- b) SHTTP
- c) HTTPS
- d) XHTTP

Ans. c

158. Which of the following are possible security threats?

- a) illegitimate use
- b) Backdoors
- c) Masquerading
- d) All of the given option are correct

Ans. d

159. Is true that HTTP is an insecure protocol?

- a) True
- b) False

Ans. a

160. What is another name for an insecure plugin?

- a) Hardware
- b) Software
- c) Firmware
- d) Malware

Ans. d

161. Which of the following refers to programs that surreptitiously monitor activity on a computer system and report that information to others without the user's consent?

- a) Malware
- b) Botnet
- c) Trojan horse
- d) Spyware

Ans. d

162. What is a computer worm?

- a) it is software designed to exploit networks.
- b) it is software designed to analyze and search for open ports.
- c) it is a software utilized to scan packets on open networks.
- d) it is malware designed to infect other computers.

Ans. d

163. Which of the following is a means to access a computer program or entire computer system bypassing all security mechanisms?

- a) Backdoor
- b) Masquerading
- c) Phishing
- d) Trojan Horse

Ans. a

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164. What does cross-site-scripting allow for attackers?

- a) Direct introduction of viruses into a victims computer.
- b) The introduction of worm viruses into the victims website.
- c) A phishing attack that automatically downloads the victims personal information.
- d) injection of client-side scripts into web pages.

Ans. d

165. Modern secure password storage should implement:

- a) Salted plain-text values of the password.
- b) Hashed values of the password
- c) Plain-text passwords stored in an encrypted database.
- d) Salted and hashed values of the password

Ans. d

166. Which of the following is a general term for malicious software that pretends to be harmless so that a user willingly allows it to be download onto the computer?

- a) Spyware

- b) Virus
- c) Trojan Horse
- d) Botnets

Ans. c

167. Which of the following is the collective name for Trojan horses, spyware, and worms?

- a) Spyware
- b) Botnets
- c) Virus
- d) Malware

Ans. d

168. When cookies are used as session identifiers, how are they then used as a potential security hazard?

- a) They emulate user's by downloading all the victim's information onto a virtual machine.
- b) User's cookies are altered to a virus like state.
- c) They emulate user's by stealing their personal identity.
- d) Attackers emulate users by stealing their cookies.

Ans. d

169. Which of the following is a valid flaw of SSL 2.0 ?

- a) It does not have any protection for the handshake
- b) identical cryptographic keys are used for message authentication and encryption
- c) it has a weak MAC construction that uses the MD5 hash function with a secret prefix
- d) all of the given options are correct

Ans. d

170. Trojan horse programs operate with what intent?

- a) To slowly but surely infect and become your operating system until the system crashed.
- b) To openly exploit a system's weaknesses until the user discovers it.
- c) To masquerade as non-malicious software while exploiting a system's weaknesses.
- d) To do a series of brute force attacks within the system itself and a series of external attacks from other servers

Ans. c

171. When is encrypted data the safest?

- a) when it is being transferred via USB stick.
- b) When it is in transit
- c) When it is being written. When it is at rest.
- d) when it is being written.

Ans. c

172. Secure cookies have which feature?

- a) They are not encrypted, just sent via secure server.
- b) They are encrypted.
- c) Secure cookies are passed along via encrypted programs.
- d) Cookies are always traded between trusted users.

Ans. b

173. Which of the following type of attack can actively modify communications of data?

- a) Both Active and Passive attack
- b) Neither Active nor Passive attack
- c) Active attack

d) Passive attack

Ans. c

174. What is the top method an attacker might infect a target?

a) Social engineering or psychological manipulation.

b) SQL injection.

c) Buffer overflow.

d) Hacking via the internet

Ans. a

175. Secure Socket layer is a predecessor of which cryptographic protocol?

a) IPSec

b) Transport Layer security

c) SSL 3.0

d) HTTPS

Ans. b

176. An SQL injection is often used to attack what?

a) Small scale machines such as diebold ATMs

b) Large scale sequel databases such as those containing credit card information.

c) Servers running SQL databases similar to Hadoop or Hive.

d) Servers built on NoSQL

Ans. b

177. According to OWASP what is the most dangerous web vulnerability?

a) Injections ( SQL, LDAP, etc)

b) Cross-site-scripting (XSS)

c) Security Misconfiguration

d) Sensitive data exposure

Ans. a

178. What is largely considered the most advanced computer virus?

a) Conficker Virus

b) Zeus

c) Stuxnet.

d) agent.biz

Ans. c

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179. Which of the following is a valid authorization key?

a) Public authorization key

b) Public ephemeral key authorization key

c) Asymmetric authorization keys

d) Symmetric authorization keys

Ans. a

180. Which of the following is a valid digital signature key?

a) Public signature authentication key

b) Private signature authentication key

c) Symmetric signature authentication key

d) Private signature key

Ans. d

181. Which of the following is not a valid type of firewall?

- a) Application- level gateways
- b) Circuit level gateways
- c) Proxy server gateway
- d) Packet filters

Ans. c

182. What is the less secure AES encryption mode?

- a) CFB
- b) OCB
- c) ECB
- d) CBC

Ans. d

183. Which of the following HTTP method is considered insecure?

- a) POST
- b) DELETE
- c) TRACE
- d) GET

Ans. c

184. What is the difference between a worm and virus?

- a) A worm does not replicate itself like a virus does, but rather moves from computer to computer
- b) A virus infects files, while a worm eats them
- c) A worm is a virus created for a very specific purpose
- d) Unlike a virus, a worm does not need to attach itself to a program to spread.

Ans. d

185. Which of the following enables secure and private data exchange/ transfer on an unsecure public network?

- a) Public key infrastructure
- b) Virtual key infrastructure
- c) Private key infrastructure
- d) All of these

Ans. a

186. Which of the following is a standalone computer program that pretends to be a well-known program in order to steal confidential data?

- a) virus
- b) Spyware
- c) Fraudtool
- d) Malware

Ans. c

187. Which of the following files are mostly infected?

- 1 .DOT
- 2 .EXE
- 3. .COM
- 4. .TXT

- a) 1, 2, 3
- b) 3, 4
- c) 2, 3
- d) 4

Ans. a

188. What is DHA?

- a) Directory Harvest Attack
- b) DNS Harvest Attack
- c) Direct Harvest Attack
- d) Dictionary Harvest Attack

Ans. a

189. Which of the following anti-spam measures are taken to reduce spam?

- a) Legislative measures
- b) Organizational measures
- c) Behavioral measures
- d) All of these

Ans. d

190. Which of the following are famous worm attacks?

- a) MyDoom Worm
- b) Bagle Worm
- c) Netsky Worm
- d) All of the above

Ans. d

191. Which of the following techniques are used by spammers to find valid/existent email addresses?

- a) SMTP spoofing
- b) SMTP poisoning
- c) DNS poisoning
- d) Directory Harvest Attack

Ans. d

192. Which of the following techniques helps in cases of address forgery?

- a) SMTP extensions
- b) Cryptographic authentication
- c) Path authentication
- d) Hybrid authentication

Ans. c

193. Which of the following types of virus lives in the boot sector ?

- a) Sector virus
- b) Parasitic virus
- c) Boot sector virus
- d) Bootable virus

Ans. c

194. Suppose you got a mail from someone saying that you have won a Rs. 100000/- and asking you to give him/her Rs. 5000/- to claim your prize. Under Which category does this type of spam mail file?

- a) Phishing and Fraud
- b) Spoofing mails
- c) Hoaxes
- d) Chain mails

Ans. a

195. What is botnet?

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a) A software that runs automatically and authonomously.

b) A software used for antispam

c) A software used to manage MTA

d) A software used to manage MDA

Ans. a

196.What are the measures to be Adobt for Best virus Protection?

a) Use of Antivirus.

b) Use of Firewall

c) Keeping software updated

d) All of these

Ans. d

197. Which of the following are the ways through which virus spreads?

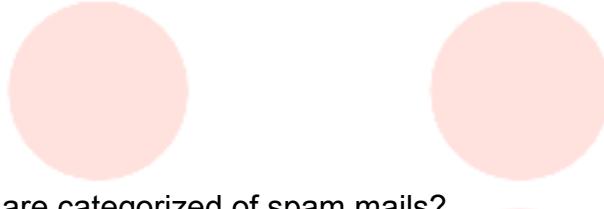
a) Floppy Disk

b) CD

c) Email Attachment

d) All of the above

Ans. d



198. Which of the following are categorized of spam mails?

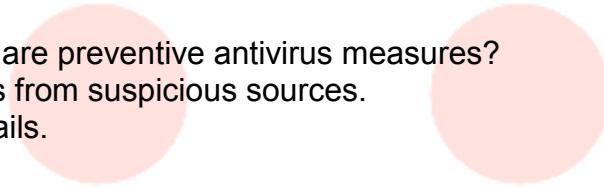
a) Phishing and Fraud

b) Spoofing mails

c) Hoaxes

d) All of the above

Ans. d



199. Which of the following are preventive antivirus measures?

a) Do not open attachments from suspicious sources.

b) Delete chain and junk mails.

c) Backup your files

d) All of the above

Ans. d

200. Suppose you got a mail from the HDFC bank asking you to give your online bank account details. Under which of the spam mail categories does this mail?

a) Phishing and fraud

b) Chain mails

c) Hoaxes

d) Brand spoofing

Ans. a

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201. What is Phishing?

a) Fraudulently acquiring sensitive information

b) An encryption technique

c) An anti-spam technique

d) A password building technique

Ans. a

202. Which of the following are direct harms caused by spam?

a) Loss of productivity

b) Increased staff costs

c) Increased infrastructure costs

d) All of the above

Ans. d

203. Which of the following are Email Security Protocols?

a) S/MIME

b) PEM

c) STE

d) PME

Ans. a

204. Which of the following measures should be taken to tackle spam mails?

a) Blocking and accepting on the basis of MTA IP address

b) Limiting the number of outgoing e-mails per account

c) Authentication mechanisms

d) All of the above

Ans. d

205. Which of the following are different categories of viruses?

a) Parasitic

b) Bootstrap sector

c) Companion

d) All of the above

Ans. d

206. What is the function of the Reverse DNS look up Technique in identifying spam mails?

a) To check the sender's email server attempting for spoofing

b) To check the receiver's email server attempting for spoofing

c) To check the DNS server validity

d) None of these

Ans. c

207. Which of the following are threats to Email Security?

a) Viruses

b) Trojans

c) Spams

d) All of the above

Ans. d

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208. Which of the following are the disadvantages of verification?

a) More complication?

b) Increased internet traffic

c) Problems in sending valid bulk mails

d) All of the above

Ans. d

209. How many antivirus programs should be installed on a single system?

a) 1

b) 2

c) 3

d) 4

Ans. a

210. Which of the following are indirect harms caused by spam?

- a) Malicious payload
- b) Fraud
- c) Loss of reputation
- d) All of the above

Ans. c

211. Which of the following are the benefits reaped from spam by those associated with antispam measures?

- a) Antispam software sales
- b) Antivirus software sales
- c) Bandwidth sales
- d) All of these

Ans. b

212. What does “RBL” stands for in Email Security?

- a) Realtime Blacking list
- b) Realtime Blocking list
- c) Realtime Blockhole list
- d) Realtime Blackhole list

Ans. c

213. Which of the following are different types of spam filtering methods?

- a) Blacklisting
- b) Rule based filtering
- c) Signature based filtering
- d) All of these

Ans. d

214. Which of the following is used in a Directory Harvest Attack?

- a) Worms
- b) Brute Force
- c) Trojans
- d) Viruses

Ans. b

215. Which of the following is used to entangle spammers?

- a) MDA
- b) Spam mails
- c) Trojans
- d) Honey pots

Ans. d

216. Which of the following techniques are used to identify spam mails?

- a) Blacklist/ Whitelists
- b) Integrity Check
- c) Heuristics
- d) All of these

Ans. d

217. Which of the following actions can be taken while filtering POP3 spam traffic?

- a) Delete the spam mail
- b) Redirect it to the spam mail box
- c) Return it to the sender

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d) Tag the spam mail

Ans. b

218. Which of the following is used to control zombies?

- a) Viruses
- b) Worms
- c) Trojan horses
- d) Spam mails

Ans. c

219. Which of the following are malicious code attacks?

- a) Brute force
- b) Trojan horses
- c) Viruses
- d) Malware

Ans. d

220. Which of the following spam filtering techniques has the highest potential for generating false positives?

- a) Community Filtering
- b) Bayesian Filtering
- c) Challenge-Response Filtering
- d) Keyword Filtering

Ans. d

221. Why shouldn't a user click unsubscribe links from spam messages?

- a) clicking the link will prevent
- b) unsubscribing makes finding the sender difficult
- c) the click may validate the email address
- d) None of these

Ans. c

222. What is an example of a phishing scam?

- a) An application that looks useful, but actually contains spyware to slow down your computer
- b) An email that appears to be legitimate, but is really being used to obtain personal or important information
- c) Hacking into a computer and leaving false trails on who did it
- d) Installing a virus and then asking you to pay to remove it

Ans. b

223. Malware is short for

- a) Malicious Software
- b) Malicious System
- c) Mariant Software
- d) Mariant Systems

Ans. a

224. What is a good method for a website owner to confirm a user is not using an account for a spamming purpose?

- a) Users must associate a phone to their account and confirm a number sent to them via text
- b) Requiring users provide valid personal information during sign up
- c) Users that register must click on a confirmation link to the email they specify in their profile
- d) All of these

Ans. d

225. A virus is a program that attached itself to (or replace the content of) which of the following file types?

- a) Text files
- b) Executables
- c) Header files
- d) Source files

Ans. b

226. In order for antivirus programs to be most effective, it is necessary to keep which of the following up to date?

- a) Web browsers
- b) File hashes
- c) Antivirus encryption keys
- d) Virus definition files

Ans. d

227. Which of the following is not a well known anti-virus program?

- a) AVAST
- b) SMAG
- c) AVG
- d) McAFee

Ans. b

228. What is a captha?

- a) A spam email that attempts to “capture” information to cause damage; the second phase is often referred to as the “gotcha” phase.
- b) An SPAM email written in all caps
- c) it is a tool websites often use to prevent automated spammer bots from posting or registering on a website by forcing the user to do a task, often entering in letters or numbers based on a picture or audio, which verifies that they are human.
- d) A group of characters hidden in an email that often includes code used in malware

Ans. c

229. What are types of malware?

- a) Viruses
- b) Spyware
- c) Worms
- d) All of these

Ans. d

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230. What could be a good indicator of a spam email?

- a) Something that sounds too good to be true
- b) An email that contain plenty of grammar mistakes
- c) An email sent to a bunch of random people
- d) All of these

Ans. d

231. In order to infect a system, clicking an email attachment must cause which of the following conditions to occur?

- a) The attachment is saved to the disk
- b) the attachment is decompressed

- c) the attachment opens in a preview editor
- d) the attachment executes

Ans. d

232. If you cannot delete malware infected file, what is good method to try first?

- a) Reformat then attempt to delete the file
- b) Run windows Repair
- c) Run windows Restore
- d) Boot in Windows safe mode and attempt to delete the file

Ans. d

233. Which of these is an example of a possible victim in a phishing attack?

- a) The website that was hacked
- b) The person who had their identity stolen
- c) The bank of the victim
- d) All of these

Ans. d

234. Automated spamming tools subscribe to mail lists in order to complete which of the following tasks?

- a) collect email addresses
- b) deny services to mail list recipients
- c) introduce security holes into the list
- d) none of these

Ans. a

235. Which of these techniques would be effective in helping to prevent phishing attacks by scammers?

- a) Use IFRAM's
- b) Allow XSS
- c) Scan for and fix XSS issues
- d) Use pop-ups

Ans. c

236. A client asks you to fix his computer because it has ransomware on it. He says he sees a message as soon as he loads windows, and cannot do anything else. What is the best way to fix this computer without losing any of his data?

- a) Reinstall windows
- b) Reformat the computer
- c) Boot from a USB drive and run a program to remove the malware
- d) Use windows restore

Ans. c

237. What is a botnet?

- a) Software that automates networks
- b) A program that sends emails repeatedly infecting other computers who open it
- c) A collection of malware stored in a network
- d) A collection of computers working together to perform a single task. These computers are often penetrated by software containing malware.

Ans. d

238. What is rogue security software?

- a) Security software that has been compromised to not pick up certain threats
- b) Security software that is no longer being used for the purpose that was intended due to an exploit or hacker.
- c) A fraudulent security program that appears to be helpful, but is actually not. It may deceive or mislead users into paying money to remove fake viruses or introduce malware after it is installed
- d) Security software that considers data files or programs as viruses, when they are not.

Ans. c

239. What is an example of a “419” Scam

- a) someone who uses social engineering to gain access to your computer or personal information
- b) Someone who sends you an email in hopes you open an attachment which contains a virus
- c) When you download a program that appears harmless, but it actually installs spyware on your computer
- d) A con in which someone asks you for assistance in retrieving a vast sum of money. Often it involves you helping him or her pay off certain fees and in return they promise to share the money with you

Ans. d

240. What is a backdoor?

- a) A vulnerability in software that allows someone to bypass the normal authentication process
- b) It is a known bug or exploit hackers use to cause software to behave in a way that was not intended by the manufacturer
- c) it is where viruses store their source code and begin to replicate
- d) it is a way for spyware to leave a system without any trace of it being there.

Ans. a

241. Virus infection via email attachment can be minimized using which of the following?

- a) Opening attachment from external hard drives
- b) Copying attachments to special directories before opening them
- c) Right clicking attachments
- d) Deleting mail containing attachments from unknown senders

Ans. d

242. In order to help prevent spam, a tarpit performs which of the following functions?

- a) traps suspected spam messages
- b) routes suspected spam to special enclaves in the system
- c) acts as a desirable mail server in order to lure spammers
- d) delivers suspected spam messages more slowly

Ans. d

243. What is ransomware?

- a) A nickname for types of spyware that require a password on boot
- b) software that steals files from your computer and is used by blackmailers
- c) A software that hijacks your computer and asks you to pay in order for it to be removed
- d) Viruses that infect files and won't let you open them unless you know a certain pass code

Ans. c

244. When a spammer forges the sender's address and enters an invalid receiver, which of the following settings will cause the receiving mail server to create backscatter?

- a) Reject messages
- b) Drop messages
- c) Bounce messages
- d) none of these

Ans. c

245. In order to help prevent spam, a honeypot performs which of the following functions?

- a) acts as a desirable mail server in order to lure spammers
- b) delivers suspect spam messages more slowly
- c) traps suspected spam messages
- d) routes suspected spam to special enclaves in the system

Ans. a

246. What is an example of a captcha?

- a) An interactive program which have instructions that read: "Move the triangle into the circle"
- b)  $1 + 1 = ?$
- c) What are the characters in this picture?
- d) All of these

Ans. d

247. You have been told by several of your friends you have recently sent SPAM emails to them, what could be the cause of this and what should you do?

- a) A spammer may have infiltrated your email provider's host and compromised your account. You should notify your email provider.
- b) A spammer or bot may have gained access to your email account and sent out SPAM to all of your contacts. You should change your password immediately.
- c) A spammer has gained access to your email. Unfortunately, the only thing you can do to prevent further SPAM is to close your account and create a new email address.
- d) A spammer is spoofing your email address. You should tell your friends to block the email address.

Ans. b

248. Which is not an example of an anti-spyware tool?

- a) Ad-Aware
- b) Windows Defender
- c) Spybot
- d) kazaa

Ans. d

249. Which of the following spam filtering issues stops valid messages from being delivered?

- a) false positives
- b) false negatives

Ans. a

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250. Which of the following techniques requires posting an email address where only spammers would find it ?

- a) Tarpits
- b) Spam Traps
- c) Blacklists
- d) None of these

Ans. b

251. Antivirus programs hash files on a computer in order to detect which of the following activities?

- a) File size changes
- b) File permission changes
- c) File content changes

d) All of these

Ans. c

252. Performing outbound spam filtering does which of the following for an organization?

- a) helps prevent whitelisting
- b) helps prevent blacklisting
- c) helps prevent spam trapping
- d) all of these

Ans. b

253. What is a Cryptolocker?

- a) A module of the windows Bitlocker encryption system
- b) A type of encrypted Linux file system
- c) A type of ransomware which encrypts user files and demands payment for the decrypted key.
- d) A malware class which is known for encrypting itself to avoid detection.

Ans. c

254. Which of the following tools would NOT be useful in figuring out what spyware or viruses could be installed on a client's computer?

- a) WireShark
- b) Malware Bytes
- c) Highjack This
- d) HitmanPro

Ans. a

255. How can delivering mail as text instead of html help prevent spam?

- a) text mail prevents web bugs from altering spammers that the message was opened
- b) mail servers won't accept html messages if they are in text mode
- c) text is easier to analyze for spammer information
- d) All of these

Ans. a

256. What is email spoofing?

- a) Copying or forwarding emails and then editing their To and Form to make it appear that the email was originally sent to or from someone else
- b) When someone forges or makes it appear that an email being sent is from a particular sender when it really is being sent by someone else
- c) When someone sends an email that appears to look like a legitimate, but it is actually not and is being used to obtain personal or important information.
- d) Sending an email through multiple accounts in order to make it difficult to trace back the original email's sender address or origin

Ans. b

257. Which of the following reduces spam by rejecting mail from a specific IP addresses?

- a) URL Blacklisting
- b) DNS Blacklisting
- c) IMAP Blacklisting
- d) POP3 Blacklisting

Ans. b

258. Antivirus signatures are constructed using which of the following?

- a) Encryption Algorithms
- b) Random Number Generators

- c) Hashes
- d) Cyclic Redundancy Checks

Ans. c

259. How can you help stop spam?

- a) Block certain email addresses known for sending spam
- b) Setup email filters based on keywords known to be in spam
- c) Unsubscribe from listservs
- d) All of these

Ans. d

260. Which of the following characteristics classify a mail message as spam?

- a) it is solicited and indiscriminately addressed
- b) it is unsolicited and indiscriminately addressed
- c) it is solicited and contains advertising
- d) it is unsolicited and contains advertising

Ans. b

261. Which of the following is true of macro viruses?

- a) They depend on the operating system to propagate
- b) They are larger than traditional viruses
- c) They depend on applications to propagate
- d) They are written in low-level language to avoid detection

Ans. c

262. Which of the following can prevent virus infections?

- a) implementing a firewall
- b) implementing an intrusion detection system
- c) Patching programs and the operating system
- d) All of these

Ans. c

263. In a compromised system, which of the following provides the safest way to analyze it?

- a) Live CD/DVD
- b) Resident Antivirus Program
- c) Live USB
- d) All of these

Ans. a

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264. Is commercial SPAM legal in the United States?

- a) Yes because it is protected under the first amendment
- b) Yes, but only if it is an advertisement
- c) Yes, but only if it follows the standards listed in the CAN-SPAM Act of 2003
- d) No

Ans. c

265. Which of the following differentiates a virus from a worm?

- a) a worm requires user interaction to infect a machine
- b) a worm can infect multiple machines
- c) a virus requires user interaction to infect a machine
- d) a virus can only infect a single machine

Ans. a

266. Which of the following spam filtering techniques statistically analyzes mail?

- a) keyword filtering
- b) challenge-Response Filtering
- c) Community Filtering
- d) Bayesian Filtering

Ans. d

267. Firewalls help to prevent which of the following malware from propagating?

- a) Encrypted viruses
- b) Worms
- c) Polymorphic viruses
- d) Trojan viruses

Ans. b

268. On a wordpress site, which is the default service/tool to prevent spammers from posting comments?

- a) Website Inspector
- b) Akismet
- c) MailWasher Pro
- d) SpamAssassin

Ans. b

269. What is a computer virus?

- a) Software that steals files from your computer and is used by blackmailers
- b) Spyware that slows down a computer by sending statistics to an unknown source
- c) A type of malware that replicates itself and spreads to other files and/ or computers.
- d) A software that hijacks your computer and asks you to pay in order for it to be removed

Ans. c

270. Which of the following is valid difference between a virus and a spyware?

- a) Spyware damages data and also steals sensitive private information
- b) Virus damaged data, spyware steals sensitive private information
- c) Spyware damages data, virus steals sensitive private information
- d) Virus damages data and also steals sensitive private information

Ans. b

271. What is called the protection of information and data from unauthorized Access?

- A Physical security
- B Link security
- C Risk management
- D Information security

Ans. d

272. Which of the following shows need for cyber security?

- a) Protection from hackers
- b) Internet scams
- c) Viruses
- d) All of the above

Ans. d

273. The first computer virus is\_\_\_\_\_

- a) Creeper
- b) Rat virus

- c) Worm
  - d) Blaster

Ans. a

274. Trojan horses are very similar to virus in the programs that replicate copies of themselves

- a) True
  - b) False

Ans. b

275. Maintaining computers free from cyber attack is called \_\_\_\_\_.

- (a) cyber attack
  - (b) risk management
  - (c) online fraud
  - (d) phishing

(c) Ans. b

## 1. When the Indian parliament passed the IT Act?



2. What is called protecting data from online attacks, deletions, malwares?

- A) Physical security
  - B) Cyber security
  - C) Cyber attack
  - D) Virus

3. What is called the unauthorized control/aceess over the computer system and destroys the data?

- A) Defamation
  - B) Carding
  - C) Hacking
  - D) Cyber - stalking

4. Cyber security is also called as **E** security?

- a) Criminal
  - b) Information Technology
  - c) National
  - d) International

5. Which of the following is an anti-virus program?

- a) Nortron
  - b) K7
  - c) Quick heal
  - d) All of these

6. \_\_\_\_\_ monitors user activity on internet and transmit that information in the background to someone else.

- a) Malware
  - b) Spyware
  - c) Adware
  - d) None of these

7. It is a program or hardware device that filters the information coming through an internet connection to a network or computer system.

- a) Anti virus
- b) Cookies
- c) Firewall
- d) Cyber Safety

8. Passwords are used to improve the \_\_\_\_\_ of a network.

- a) Performance
- b) Reliability
- c) Security
- d) Longevity

9. Where might a spammer get your personal information from?

- a) Facebook
- b) MySpace
- c) Linkedin
- d) All of these

10. A virus can spread to another computer by

- a) Sharing an infected file with another computer
- b) Through touch
- c) Pinging other computers from the infected computer
- d) Being on the same network as the computer

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# HEETSON

SOLVES YOUR PROBLEM

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Collection of protocol designed by IETF
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Operation in Tunnel mode
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects information in
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec in which mode does not protect IP header
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which mode is used when we need host to host protection
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects the whole IP packets
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec defines two protocol
((OPTION_A)) THIS IS MANDATORY OPTION	AH, SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP, ASP
((OPTION_C)) This is optional	AH, ESP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Authentication at the IP header
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES AUTHENTICATION OR ENCRYPTION OR BOTH FOR PACKET AT IP LEVEL
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ESP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSEC USES A SET OF SA CALLED
((OPTION_A)) THIS IS MANDATORY OPTION	SAD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SAB
((OPTION_C)) This is optional	SADB
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol to provide security for inbound and outbound
((OPTION_A)) THIS IS MANDATORY OPTION	SA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CA
((OPTION_C)) This is optional	KDC
((OPTION_D)) This is optional	IKE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE creates SA for
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP
((OPTION_C)) This is optional	IPSec
((OPTION_D)) This is optional	VP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE based on other how many protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Two
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Three
((OPTION_C)) This is optional	Four
((OPTION_D)) This is optional	five
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE uses
((OPTION_A)) THIS IS MANDATORY OPTION	OAKLEY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SKEME
((OPTION_C)) This is optional	ISKAMP
((OPTION_D)) This is optional	ALL ABOVE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network is used in an organization
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Semi private
((OPTION_D)) This is optional	Semi publik
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Private network that uses an internet model
((OPTION_A)) THIS IS MANDATORY OPTION	intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a network that allows authorized access from outside
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Internet authorities have reserved address for
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is provides privacy for LAN
((OPTION_A)) THIS IS MANDATORY OPTION	VPP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	VNP
((OPTION_C)) This is optional	VNN
((OPTION_D)) This is optional	VPN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES END TO END SECURITY FOR APPLICATION
((OPTION_A)) THIS IS MANDATORY OPTION	DATA LINK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NETWORK
((OPTION_C)) This is optional	TRANSPORT
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is actually an IETF version on
((OPTION_A)) THIS IS MANDATORY OPTION	TLS, TSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL. TLS
((OPTION_C)) This is optional	TLS, SSL
((OPTION_D)) This is optional	SSL,SLT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security at the transport layer
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To provide security and compression
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Can receive application data from any application layer protocol
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSL provides
((OPTION_A)) THIS IS MANDATORY OPTION	Integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Compression
((OPTION_D)) This is optional	All above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSI session
((OPTION_A)) THIS IS MANDATORY OPTION	List of protocol
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher suit
((OPTION_C)) This is optional	List of keys
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cryptographic algorithem and secrets are sent with the message IN
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	TLS
((OPTION_D)) This is optional	PGP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security protocol for email security is
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Was invented by Phil Zimmerman
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security, integration, authentication in email
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Method to transfer secure message
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cryptoanalysis
((OPTION_C)) This is optional	both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the original message before transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the message after transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms plaintext to ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms cipher text to plain text
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A combination of encryption and decryption algorithm is called
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher operates on
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The same key used by both the sender and receiver
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The key is called as secret key
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A pair of keys used in
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the sender uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the receiver uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A cipher replaces one character with another
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic and polyalphabetic cipher are
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The simplest monoalphabetic cipher is
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Ceasar cipher that has key of 3
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cipher reorders the plain text to create the ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless substitution To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless transposition To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher made of a combination of different simple cipher
((OPTION_A)) THIS IS MANDATORY OPTION	Round
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Circle
((OPTION_C)) This is optional	Square
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is an method
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES has an Round
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES functions has componenets
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES uses a key generaterto generater to generate sixteen ---round key
((OPTION_A)) THIS IS MANDATORY OPTION	32 bit
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	48 bit
((OPTION_C)) This is optional	54 bit
((OPTION_D)) This is optional	42 bit
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES was designed to increase the size of DES key
((OPTION_A)) THIS IS MANDATORY OPTION	Double
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripal
((OPTION_C)) This is optional	Quadrupal
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Algorithm uses a 128 bit block of data
((OPTION_A)) THIS IS MANDATORY OPTION	AEE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AED
((OPTION_C)) This is optional	AER
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES has how many different combinations
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are ciphers
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Field
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptographic algorithm is
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	AC
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	it provides a one time session key for two parties
((OPTION_A)) THIS IS MANDATORY OPTION	Diffie hellman
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is an abbreviation of
((OPTION_A)) THIS IS MANDATORY OPTION	Terminal network
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Telephone network
((OPTION_C)) This is optional	Telecommunication network
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is a client server application program for
((OPTION_A)) THIS IS MANDATORY OPTION	Specific purpose
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	General purpose
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Users logs in to local time sharing system is called
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To access remote machine need a login
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	NVT uses two set of character
((OPTION_A)) THIS IS MANDATORY OPTION	Sending, receiving
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Request, reply
((OPTION_C)) This is optional	Data, control
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The server uses -----port
((OPTION_A)) THIS IS MANDATORY OPTION	Wellknown
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Emperor
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To distinguish data from characters
((OPTION_A)) THIS IS MANDATORY OPTION	ICA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IAC
((OPTION_C)) This is optional	AIC
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	the echoing is done by the client in the mode
((OPTION_A)) THIS IS MANDATORY OPTION	Default
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Character
((OPTION_C)) This is optional	Line
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP uses a service of
((OPTION_A)) THIS IS MANDATORY OPTION	UDP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IP
((OPTION_C)) This is optional	TCP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP control and data connection are
((OPTION_A)) THIS IS MANDATORY OPTION	21, 22
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	20,21
((OPTION_C)) This is optional	21,20
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP is the service type used by IP protocol because
((OPTION_A)) THIS IS MANDATORY OPTION	Maximise throughput
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Minimize delay
((OPTION_C)) This is optional	Minimize error
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For control connection FTP use a character set of
((OPTION_A)) THIS IS MANDATORY OPTION	Regular ASCII
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EBCDIC
((OPTION_C)) This is optional	NVT ASCII
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP files are types of an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structures
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP there are three types of -----,stream, blocked and compression
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structurs
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP and image defines an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File type
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structure
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the server to client
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Retrieve a list
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the client to server
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Store a file
((OPTION_C)) This is optional	Retrieve a file
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a part of a local hard drive, a special file with permission restriction
((OPTION_A)) THIS IS MANDATORY OPTION	A message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A response
((OPTION_C)) This is optional	An agent
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and the receiver on the same system we need
((OPTION_A)) THIS IS MANDATORY OPTION	One UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	One UA and one MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are on the different system, we need
((OPTION_A)) THIS IS MANDATORY OPTION	One MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	Two UA and one pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender is connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pairs of MTA
((OPTION_C)) This is optional	Two UA and a pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two UA, two pair of MTA, a pair of MAA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pair of MTA
((OPTION_C)) This is optional	Two UA, two pair of MTA, two pair of MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It provides a service to the user to make the process of sending and receiving message
((OPTION_A)) THIS IS MANDATORY OPTION	MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAA
((OPTION_C)) This is optional	UA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following services is not provided by UA
((OPTION_A))  THIS IS MANDATORY OPTION	Composing message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Reading message
((OPTION_C))  This is optional	Reply message
((OPTION_D))  This is optional	ALL are
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There are two types of user agents
((OPTION_A)) THIS IS MANDATORY OPTION	Command driven, data driven
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Command driven, GUI based
((OPTION_C)) This is optional	Command based and data based
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It contains the sender address, receiver address and other information
((OPTION_A)) THIS IS MANDATORY OPTION	Message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Envelop
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The message contains
((OPTION_A)) THIS IS MANDATORY OPTION	Header, envelop
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Header, body
((OPTION_C)) This is optional	Envelop, body
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the internet, the email address contains two parts
((OPTION_A)) THIS IS MANDATORY OPTION	Local part, domain name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Global part, domain name
((OPTION_C)) This is optional	Label, domain name
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is a supplementary protocol that allow Non ASCII data to be sent through email
((OPTION_A)) THIS IS MANDATORY OPTION	JPEG
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MPEG
((OPTION_C)) This is optional	MIME
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The actual email transfer is done through
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol that defines a MTA client and server in the internet is called
((OPTION_A)) THIS IS MANDATORY OPTION	SMTP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SNMP
((OPTION_C)) This is optional	TELNET
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of transferring a mail message occurs in-----phase
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SMTP is --- protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in a email transfer need a ---protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in an email transfer uses an ----protocol
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Currently two message asses protocol are available
((OPTION_A)) THIS IS MANDATORY OPTION	POP3, IMAP2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POP4,IMAP1
((OPTION_C)) This is optional	POP3, IMAP4
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem _____ keys are used for encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different
((OPTION_C)) This is optional	Encryption Keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	In conventional cryptosystem, same keys are used for encryption and decryption where as in public key cryptosystem different keys are used.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem which is kept as public?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption keys
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption keys
((OPTION_C)) This is optional	Encryption & Decryption keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	In public key cryptosystem, the encryption keys are kept as public where as decryption keys are kept as secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptosystem uses same key for both encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which should be kept as a secret in public key cryptosystem?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption key
((OPTION_C)) This is optional	Encryption & Decryption key
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	In public key cryptosystem, Encryption is done using public key . decryption key needs to be kept as a secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Euler's totient function is determined by
((OPTION_A)) THIS IS MANDATORY OPTION	$pq$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(p-1)(q-1)$
((OPTION_C)) This is optional	$(p+1)(q+1)$
((OPTION_D)) This is optional	$p/q$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The Euler's totient function is determined by $(p-1)(q-1)$ , where p and q are kept hidden.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'?
((OPTION_A))  THIS IS MANDATORY OPTION	p and q should be divisible by $\Phi(n)$
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	p and q should be co-prime
((OPTION_C))  This is optional	p and q should be prime
((OPTION_D))  This is optional	p/q should give no remainder
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	'p' and 'q' should have large random values which are both prime numbers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.
((OPTION_A)) THIS IS MANDATORY OPTION	(p)/(q)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	(p)(q)
((OPTION_C)) This is optional	(p-1)(q-1)
((OPTION_D)) This is optional	(p+1)(q+1)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$\Phi(n) = (p-1)(q-1).$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	$\gcd(e, \Phi(n))=1$ ; and $1 < e < \Phi(n)$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $e=17$ . Apply RSA algorithm where message=5 and find the cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	C=80
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	C=92
((OPTION_C)) This is optional	C=56
((OPTION_D)) This is optional	C=23
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 209.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	54
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	43
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	24
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$n = pq = 11 \times 19 = 209$ . $C=M^e \text{ mod } n ; C=5^{17} \text{ mod } 209 ; C = 80 \text{ mod } 209$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	$n = 35; e = 5; C = 10$ . What is the plaintext (use RSA) ?
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	7
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Use RSA system to decrypt and get PT = 5.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where PT message=88 and thus find the CT.
((OPTION_A)) THIS IS MANDATORY OPTION	23
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64
((OPTION_C)) This is optional	11
((OPTION_D)) This is optional	54
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=88^7 \text{ mod } 187 ; C = 11 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where Cipher message=11 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	88
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	122
((OPTION_C)) This is optional	143
((OPTION_D)) This is optional	111
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=11^{23} \text{ mod } 187 ; C = 88 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an RSA system the public key of a given user is $e = 31$ , $n = 3599$ . What is the private key of this user?
((OPTION_A))  THIS IS MANDATORY OPTION	3031
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	2412
((OPTION_C))  This is optional	2432
((OPTION_D))  This is optional	1023
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	By trial and error, we determine that $p = 59$ and $q = 61$ . Hence $f(n) = 58 \times 60 = 3480$ . Then, using the extended Euclidean algorithm, we find that the multiplicative inverse of 31 modulo $f(n)$ is 3031

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compute private key (d, p, q) given public key (e=23, n=233 ´ 241=56,153).
((OPTION_A)) THIS IS MANDATORY OPTION	35212
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	12543
((OPTION_C)) This is optional	19367
((OPTION_D)) This is optional	32432
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Since n=233 ´ 241=56,153, p=233 and q=241 $f(n) = (p - 1)(q - 1) = 55,680$ Using Extended Euclidean algorithm, we obtain $d = 23^{-1} \text{ mod } 55680 = 19,367.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a RSA cryptosystem a particular A uses two prime numbers $p = 13$ and $q = 17$ to generate her public and private keys. If the public key of A is 35. Then the private key of A is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	13
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	17
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In an RSA cryptosystem, for public key: $\text{GCD}(\phi(n), e) = 1$ And, for private key:

	$(e * d) \bmod \phi(n) = 1$ Where, $\phi(n) = (p - 1)*(q - 1) = (13 - 1)(17 - 1) = 12 * 16 = 192$ Such that $1 < e, d < \phi(n)$ Therefore, the private key is: $(35 * d) \bmod \phi(n) = 1$ $d = 11$
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA public key cryptosystem, which one of the following numbers will always be largest?
((OPTION_A)) THIS IS MANDATORY OPTION	E
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	N
((OPTION_C)) This is optional	P
((OPTION_D)) This is optional	Q
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The number $n$ is generated as the product of the two large prime numbers $p$ and $q$ . Therefore, $n$ must always be greater than both $p$ and $q$ . Furthermore, it is an algorithm constraint that $e$ must be chosen such that $e$ is smaller than $n$ . Therefore, in RSA cryptography $n$ is always the largest of the four variables shown in the options to this question.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If Richard wants to send an encrypted message to Sue using a public key cryptosystem, which key does he use to encrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Richard must encrypt the message using Sue's public key so that Sue can decrypt it using her private key. If he encrypted the message with his own public key, the recipient would need to know Richard's private key to decrypt the message. If he encrypted it with his own private key, any user could decrypt the message using Richard's freely available public key. Richard could not encrypt the message using Sue's private key because he does not have access to it. If he did, any user could decrypt it using Sue's freely available public key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Acme Widgets currently uses a 1,024-bit RSA encryption standard companywide. The company plans to convert from RSA to an elliptic curve cryptosystem. If it wishes to maintain the same cryptographic strength, what ECC key length should it use?
((OPTION_A)) THIS IS MANDATORY OPTION	160 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	512 bits
((OPTION_C)) This is optional	1,024 bits
((OPTION_D)) This is optional	2,048 bits

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The elliptic curve cryptosystem requires significantly shorter keys to achieve encryption that would be the same strength as encryption achieved with the RSA encryption algorithm. A 1,024-bit RSA key is cryptographically equivalent to a 160-bit elliptic curve cryptosystem key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Richard received an encrypted message sent to him from Sue. Which key should he use to decrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sue would have encrypted the message using Richard's public key. Therefore, Richard needs to use the complementary key in the key pair, his private key, to decrypt the message.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One commonly used public-key cryptography method is the _____ algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the objective of Diffie-Hellman key exchange?
((OPTION_A)) THIS IS MANDATORY OPTION	To protect encrypted data from man-in-the-middle attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	To perform mutual authentication on both sides
((OPTION_C)) This is optional	To prove to another party that one holds a secret key without revealing it
((OPTION_D)) This is optional	To establish a shared secret key on both sides

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The security of RSA encryption relies on which assumption?
((OPTION_A)) THIS IS MANDATORY OPTION	It is computationally infeasible to compute a GCD of two large numbers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is computationally infeasible to factor a large number.
((OPTION_C)) This is optional	It is computationally infeasible to test whether a large number is prime.
((OPTION_D)) This is optional	It is computationally infeasible to compute a square modulo n.

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is asymmetric cryptography?
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	Both ECC and RSA
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below requires less hardware capacity because of less key size
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Diffie Hellman is _____
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption algorithm
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	D-H is key exchange algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Timing attack on RSA can be avoided by __
((OPTION_A)) THIS IS MANDATORY OPTION	Padding extra bits in message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Adding delays
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below algorithm is used in cryptocurrency?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AES
((OPTION_C)) This is optional	ECC
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When a hash function is used to provide message authentication, the hash function value is called to as:
((OPTION_A)) THIS IS MANDATORY OPTION	Message Field
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Message Digest
((OPTION_C)) This is optional	Message Score
((OPTION_D)) This is optional	Message Leap

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	We know that the hash function providing message authentication is referred to as message digest in cryptography.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following are used to create a message digest  a. RSA b. SHA-1 c. DES d. MD5
((OPTION_A)) THIS IS MANDATORY OPTION	A&B
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	B&C
((OPTION_C)) This is optional	A&C

((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	They are Message digest algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the output of a cryptographic hash function?
((OPTION_A)) THIS IS MANDATORY OPTION	A variable set of bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A fixed set of bits, derived from one-way mathematical operations
((OPTION_C)) This is optional	An output which may be easily discovered by an adversary

((OPTION_D)) This is optional	Outputs of such functions are of no importance
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest algorithms are primarily used to provide _____
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	inegrity

((OPTION_D)) This is optional	authorization
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a message digest algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IDEA
((OPTION_C)) This is optional	MD5

((OPTION_D)) This is optional	RSA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the data must arrive at the receiver exactly as sent.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the receiver is ensured that the message is coming from the intended sender, not an imposter.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ function creates a message digest out of a message
((OPTION_A)) THIS IS MANDATORY OPTION	encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	hash

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a trusted third party that assigns a symmetric key to two parties.
((OPTION_A)) THIS IS MANDATORY OPTION	Public directory
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Certificate authority
((OPTION_C)) This is optional	Both

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature provides _____.
((OPTION_A)) THIS IS MANDATORY OPTION	authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nonrepudiation
((OPTION_C)) This is optional	both (a) and (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature needs a(n) _____ system
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a federal or state organization that binds a public key to an entity and issues a certificate.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	means that a sender must not be able to deny sending a message that he sent.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication

((OPTION_D)) This is optional	Nonrepudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a popular session key creator protocol that requires an authentication server and a ticket-granting server.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The MD5 is a message digest algorithm developed by
((OPTION_A)) THIS IS MANDATORY OPTION	Ron Rivest.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	WhiteField Diffie.
((OPTION_C)) This is optional	Martin Hellman.

((OPTION_D)) This is optional	Diffie-Hellman.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 is quite fast and produces _____ message digests
((OPTION_A)) THIS IS MANDATORY OPTION	512 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1024 bits
((OPTION_C)) This is optional	128 bits

((OPTION_D)) This is optional	64 bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The first step of MD5 is
((OPTION_A)) THIS IS MANDATORY OPTION	add padding bits to original messsge
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	adding append length bits
((OPTION_C)) This is optional	divide the input into 512 bit blocks

((OPTION_D)) This is optional	compression
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the process block divides the 512 bits into _____ sub blocks.
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	24
((OPTION_C)) This is optional	32

((OPTION_D)) This is optional	84
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which financial institutions have a relationship with merchants for processing payment card authorizations and payments?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Acquirer
((OPTION_C)) This is optional	Merchant

((OPTION_D)) This is optional	Dealer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following contains the order information such as which items are being purchased?
((OPTION_A)) THIS IS MANDATORY OPTION	PI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	OI
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Payment information can be encrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	customer's private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	merchant public key
((OPTION_C)) This is optional	one-time session key.

((OPTION_D)) This is optional	customer's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature envelope is decrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	merchant private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	payment's private key
((OPTION_C)) This is optional	payment public key

((OPTION_D)) This is optional	merchant's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ will ensure the merchant and their payment information
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Dual signature

((OPTION_D)) This is optional	Certificate authority
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SET provides an authentication with the help of _____
((OPTION_A)) THIS IS MANDATORY OPTION	dual signature
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	digital certificate
((OPTION_C)) This is optional	payment's public key

((OPTION_D)) This is optional	payment's private key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are very crucial for success of RSA algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	Integers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Prime numbers
((OPTION_C)) This is optional	Negative number

((OPTION_D)) This is optional	Fraction
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ acts as financial institutions who provides a payment card to a card holder
((OPTION_A)) THIS IS MANDATORY OPTION	payment gateway
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	card holder
((OPTION_C)) This is optional	acquirer

((OPTION_D)) This is optional	issuer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	ISSUER means Bank

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who will be responsible for processing the payment from the customer's account to the merchant account?
((OPTION_A)) THIS IS MANDATORY OPTION	Acquirer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Issuer

((OPTION_D)) This is optional	Payment gateway
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cardholder combines the PIMD and OIMD and hashes them together to form
((OPTION_A)) THIS IS MANDATORY OPTION	OPMD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POMD
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which process will ensure that the issues of the credit card is an approved transactions?
((OPTION_A)) THIS IS MANDATORY OPTION	Payment capture
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Payment authorization
((OPTION_C)) This is optional	Purchase request

((OPTION_D)) This is optional	Purchase reply
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is used for hiding the payment information from the merchant.
((OPTION_A)) THIS IS MANDATORY OPTION	SET
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	SHTTP

((OPTION_D)) This is optional	TSP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A __word buffer is used to compute the message digest in MD5
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5

((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	4 WORD A,B,C,D

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the message is <b>padded</b> so that its length is divisible by ____
((OPTION_A)) THIS IS MANDATORY OPTION	32
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	128
((OPTION_C)) This is optional	512

((OPTION_D)) This is optional	1024
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 should meet requirements:
((OPTION_A)) THIS IS MANDATORY OPTION	It is impossible to generate two inputs that cannot produce the same hash function
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is impossible to generate a message having the same hash value
((OPTION_C)) This is optional	Both of the above

((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 takes an input of ___ size and produces an output if a 128-bit hash value
((OPTION_A)) THIS IS MANDATORY OPTION	Any
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Multiple of 512
((OPTION_C)) This is optional	Multiple of 128

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following best describes sniffing?
((OPTION_A)) THIS IS MANDATORY OPTION	Gathering packets to locate IP addresses, in order to initiate a session hijacking attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Analyzing packets in order to locate the sequence number to start a session hijack
((OPTION_C)) This is optional	Monitoring TCP sessions in order to initiate a session-hijacking attack

((OPTION_D)) This is optional	Locating a host susceptible to a session-hijack attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sniffing is usually used to locate the sequence number, which is necessary for a session hijack.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The secret key between members needs to be created as a _____ key when two members contact Kerberos system
((OPTION_A)) THIS IS MANDATORY OPTION	Public
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session
((OPTION_C))	complimentary

This is optional	
((OPTION_D))	None of these
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main components of Kerberos are:
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	database

This is optional	
((OPTION_D))	All of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ performs the initial authentication and ticket for Ticket Granting Service
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	Database

This is optional	
((OPTION_D))	Kerberos
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Authentication Server verifies access right of users in __
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TG server
((OPTION_C))	Database

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ issues the ticket for the Server
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	DB

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is primarily used for _____
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))	confidentiality

This is optional	
((OPTION_D))	authorization
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The KDC encrypts the TGT with a password that only the _____ knows.
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	Server

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Because no one else needs to be able to see the contents.  It's for the server to keep track of the client

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The essence of Kerberos' system is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	One way authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity

((OPTION_C)) This is optional	Mutual authentication
((OPTION_D)) This is optional	Public authentication
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not an element/field of the X.509 certificates?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer Name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Serial Modifier

((OPTION_C)) This is optional	Issuer unique Identifier
((OPTION_D)) This is optional	Signature
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 certificate recommends which cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	DES

((OPTION_C)) This is optional	AES
((OPTION_D)) This is optional	Rabin
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The standard used in digital certificates that defines its structure, fields, and Values is
((OPTION_A)) THIS IS MANDATORY OPTION	Kerberos
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	End to end encryption

((OPTION_C)) This is optional	X.509
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 Certificates includes
((OPTION_A)) THIS IS MANDATORY OPTION	Version
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	signature algorithm identifier

((OPTION_C)) This is optional	period of validity
((OPTION_D)) This is optional	extension fields
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CH OICE)) Either A or B or C or D or E	E
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ defines a framework for the provision of authentication services by the X.500 directory
((OPTION_A)) THIS IS MANDATORY OPTION	X.509
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.508

((OPTION_C)) This is optional	X.505
((OPTION_D)) This is optional	X.609
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature is a mathematical technique used to validate the _____ and _____ of a message, software or digital document
((OPTION_A)) THIS IS MANDATORY OPTION	Authenticity, integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity, confidentiality

((OPTION_C)) This is optional	Integrity,non-repudiation
((OPTION_D)) This is optional	Authenticity,confidentiality
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature involves ____ and ____
((OPTION_A)) THIS IS MANDATORY OPTION	Signature verification ,validation
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Signature creation,verification

((OPTION_C)) This is optional	Signature creation,deletion
((OPTION_D)) This is optional	Signature validation,modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest is computed by applying hash function on the message and then message digest is encrypted using _____ key of sender to form the digital signature.
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Session
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature , Receiver decrypts the digital signature using the _____ key of sender
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Secret
((OPTION_D)) This is optional	Session
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature, The message digest computed by ___ and the message digest (got by decryption on digital signature) need to be ___ for ensuring integrity
((OPTION_A)) THIS IS MANDATORY OPTION	Receiver,same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Receiver,different

((OPTION_C)) This is optional	Sender,same
((OPTION_D)) This is optional	Sender,different
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is like a fingerprint or an attachment to a digital document that ensures its authenticity and integrity.
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Digital signature

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature follows _____
((OPTION_A)) THIS IS MANDATORY OPTION	Digital Signature Standard (DSS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.509 standard format

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In diffie-hellman algorithm, if Alice and Bob wish to communicate with each other, they first agree between them a large prime number n, and ____ g
((OPTION_A)) THIS IS MANDATORY OPTION	Generator
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Small prime number

((OPTION_C)) This is optional	Natural number
((OPTION_D)) This is optional	Factorial
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm if $X_a$ is private key of user then public key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$g^{X_a} \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$n^{X_a} \text{ mod } n$

((OPTION_C)) This is optional	$g^n \bmod p$
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, ____ keys of each other should be known
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session

((OPTION_C)) This is optional	Public
((OPTION_D)) This is optional	No
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm,shared secret key is calculated by _____
((OPTION_A)) THIS IS MANDATORY OPTION	$(g^a \text{ mod } n)^b \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(g^b \text{ mod } n)^a \text{ mod } n$

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, the resulting shared secret will be the ___ every time
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different

((OPTION_C)) This is optional	Maybe same
((OPTION_D)) This is optional	Can't say
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ the first widely used method of safely developing and exchanging keys over an insecure channel
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSS

((OPTION_C)) This is optional	Diffie Hellman
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suppose that two parties A and B wish to set up a common secret key (D-H key) between themselves using the Diffie Hellman key exchange technique. They agree on 7 as the modulus and 3 as the primitive root. Party A chooses 2 and party B chooses 5 as their respective secrets. Their D-H key is
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4

((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prime value $q = 17$ and primitive root $= 5$ . If Alice's secret key is 4 and Bob's secret key is 6, what is the shared secret key they exchanged?
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	17

((OPTION_C)) This is optional	18
((OPTION_D)) This is optional	19
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each round of MD5 consist of ____ operations
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15

((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	18
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each buffer of MD5 algorithm is ____ bit long
((OPTION_A))  THIS IS MANDATORY OPTION	32
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	64

((OPTION_C)) This is optional	128
((OPTION_D)) This is optional	512
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	RSA is _____ cryptography
((OPTION_A)) THIS IS MANDATORY OPTION	Asymmetric
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Value generated by hash function is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Message digest
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hash

((OPTION_C)) This is optional	MAC
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not service of digital signature
((OPTION_A))  THIS IS MANDATORY OPTION	Authentication to message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data integrity

((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	____ digitally signs this entire information and includes digital signature in the certificate
((OPTION_A)) THIS IS MANDATORY OPTION	CA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	KDC

((OPTION_C)) This is optional	PKI
((OPTION_D)) This is optional	DB
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA ,e is used as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Euler's totient
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, d is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key
((OPTION_C)) This is optional	Totient function
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following Algorithms does not belong to symmetric encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	3DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	RC5
((OPTION_D)) This is optional	IDEA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Assymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?
((OPTION_A)) THIS IS MANDATORY OPTION	Not true, the message can also be decrypted with the Public Key.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A so called "one way function with back door" is applied for the encryption
((OPTION_C)) This is optional	The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.
((OPTION_D)) This is optional	The encrypted message contains the function for decryption which identifies the Private Key.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	An one-way function is a function which a computer can calculate quickly, but whose reversal would last months or years. An one-way function with back door can be reversed with the help of a couple of additional information (the back door), but scarcely

	without this information. The information for the back door is contained in the private Key.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the largest disadvantage of the symmetric Encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	More complex and therefore more time-consuming calculations.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Problem of the secure transmission of the Secret Key
((OPTION_C)) This is optional	Less secure encryption function.
((OPTION_D)) This is optional	Isn't used any more
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION))	As there is only one key in the symmetrical encryption, this must

)) This is also optional	be known by both sender and recipient and this key is sufficient to decrypt the secret message. Therefore it must be exchanged between sender and receiver in such a manner that an unauthorized person can in no case take possession of it.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the principle of the encryption using a key?
((OPTION_A)) THIS IS MANDATORY OPTION	The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	The key contains the secret function for encryption including parameters. Only a password can activate the key.
((OPTION_C)) This is optional	All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.
((OPTION_D)) This is optional	The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	C

E	
((EXPLANATION)) This is also optional	The encoding of a message is calculated by an algorithm. If always the same algorithm would be used, it would be easy to crack intercepted messages. However, it isn't possible to invent a new algorithm whenever the old one was cracked, therefor the possibility to parameterize algorithms is needed and this is the assignment of the key. All algorithms must be public, only the keys are secret (principle of Kerckhoff, Dutch cryptographer during 19th century).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If the sender and receiver use different keys, the system is referred to as conventional cipher system
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Such a system is called asymmetric, two-key, or public-key cipher system

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Use Caesar's Cipher to decipher the following HQFUBSWHG WHAW
((OPTION_A)) THIS IS MANDATORY OPTION	ABANDONED LOCK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ENCRYPTED TEXT
((OPTION_C)) This is optional	ABANDONED TEXT
((OPTION_D)) This is optional	ENCRYPTED LOCK
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher uses $C = (p+3) \text{ mod } 26$ to encrypt.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Caesar Cipher is an example of
((OPTION_A)) THIS IS MANDATORY OPTION	Poly-alphabetic Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Mono-alphabetic Cipher
((OPTION_C)) This is optional	Multi-alphabetic Cipher
((OPTION_D)) This is optional	Bi-alphabetic Cipher
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher is an example of Mono-alphabetic cipher, as single alphabets are encrypted or decrypted at a time.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Monoalphabetic ciphers are easier to break because they reflect the frequency of the original alphabet.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis
((OPTION_A)) THIS IS MANDATORY OPTION	Random Polyalphabetic, Plaintext, Playfair
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Random Polyalphabetic, Playfair, Vignere
((OPTION_C)) This is optional	Random Polyalphabetic, Vignere, Playfair, Plaintext
((OPTION_D)) This is optional	Random Polyalphabetic, Plaintext, Beaufort, Playfair
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Random Polyalphabetic is the most resistant to frequency analysis, followed by Vignere, Playfair and then Plaintext.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-
((OPTION_A)) THIS IS MANDATORY OPTION	abqdnnewuwjphfvrrtrfznsdokvl
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	abqdmwwuwjphfvyyrfznydokvl
((OPTION_C)) This is optional	tbqyrvmwuwjphfvyyrfznydokvl
((OPTION_D)) This is optional	baiuvmwuwjphfoeiyrfznydokvl
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	nlazeiiblji
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nlazeiiblji
((OPTION_C)) This is optional	olaaeiiblki
((OPTION_D)) This is optional	mlaaeiibljk
((OPTION_E)) This is optional. If optional keep empty so that	

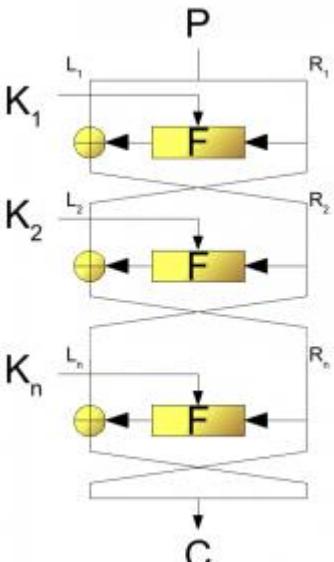
system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m$ (mod 26).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Confusion hides the relationship between the ciphertext and the plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Confusion hides the relationship between the ciphertext and the key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The S-Box is used to provide confusion, as it is dependent on the unknown key.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	false
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The S-Box is used to provide confusion, as it is dependent on the unknown key. The P-Box is fixed, and there is no confusion due to it, but it provides diffusion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This is an example of 
((OPTION_A)) THIS IS MANDATORY OPTION	SP Networks
((OPTION_B)) THIS IS ALSO MANDATORY	Feistel Cipher

OPTION	
((OPTION_C)) This is optional	Hash Algorithm
((OPTION_D)) This is optional	Hill Cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following slows the cryptographic algorithm – 1) Increase in Number of rounds 2) Decrease in Block size 3) Decrease in Key Size 4) Increase in Sub key Generation
((OPTION_A)) THIS IS MANDATORY OPTION	1 and 3
((OPTION_B)) THIS IS ALSO MANDATORY	2 and 3

OPTION	
((OPTION_C)) This is optional	3 and 4
((OPTION_D)) This is optional	2 and 4
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Increase in any of the above 4 leads to slowing of the cipher algorithm i.e. more computational time will be required.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES follows
((OPTION_A)) THIS IS MANDATORY OPTION	Hash Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY	Caesars Cipher

OPTION	
((OPTION_C)) This is optional	Feistel Cipher Structure
((OPTION_D)) This is optional	SP Network
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES Algorithm Cipher System consists of _____ rounds (iterations) each with a round key
((OPTION_A)) THIS IS MANDATORY OPTION	12
((OPTION_B)) THIS IS ALSO MANDATORY	18

OPTION	
((OPTION_C)) This is optional	9
((OPTION_D)) This is optional	16
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The DES Algorithm Cipher System consists of 16 rounds (iterations) each with a round key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES algorithm has a key length of
((OPTION_A)) THIS IS MANDATORY OPTION	128 Bits
((OPTION_B)) THIS IS ALSO MANDATORY	32 Bits

OPTION	
((OPTION_C)) This is optional	64 Bits
((OPTION_D)) This is optional	16 Bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	56 bits are used, the rest 8 bits are parity bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	48, 32
((OPTION_B)) THIS IS ALSO MANDATORY	64,32

OPTION	
((OPTION_C)) This is optional	56, 24
((OPTION_D)) This is optional	32, 32
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____
((OPTION_A)) THIS IS MANDATORY OPTION	Scaling of the existing bits
((OPTION_B)) THIS IS ALSO MANDATORY	Duplication of the existing bits

OPTION	
((OPTION_C)) This is optional	Addition of zeros
((OPTION_D)) This is optional	Addition of ones
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits. This input is first expanded to 48 bits (permutation plus an expansion), that involves duplication of 16 of the bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Initial Permutation table/matrix is of size
((OPTION_A)) THIS IS MANDATORY OPTION	$16 \times 8$
((OPTION_B)) THIS IS ALSO MANDATORY	$12 \times 8$

OPTION	
((OPTION_C)) This is optional	8×8
((OPTION_D)) This is optional	4×8
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	There are 64 bits to permute and this requires a 8×8 matrix.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The number of unique substitution boxes in DES after the 48 bit XOR operation are
((OPTION_A)) THIS IS MANDATORY OPTION	8
((OPTION_B)) THIS IS ALSO MANDATORY	4

OPTION	
((OPTION_C)) This is optional	6
((OPTION_D)) This is optional	12
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The substitution consists of a set of 8 S-boxes, each of which accepts 6 bits as input and produces 4 bits as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During decryption, we use the Inverse Initial Permutation (IP-1) before the IP.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	IP-1 is the first step and the last step is IP during decryption.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A preferable cryptographic algorithm should have a good avalanche effect.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Thus statement is true as a change in one bit of the plaintext or one bit of the key should produce a change in many bits of the ciphertext. This is referred to as the avalanche effect.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the size(in bits) of the key in the SDES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	24
((OPTION_B)) THIS IS ALSO MANDATORY	16

OPTION	
((OPTION_C)) This is optional	20
((OPTION_D)) This is optional	10
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	The size of the key in the SDES algorithm is 10 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	GCD(a,b) is the same as GCD( a , b ).
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	This is true. $\gcd(60,24) = \gcd(60,-24) = 12$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 1160718174 and 316258250 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	882
((OPTION_B)) THIS IS ALSO MANDATORY	770

OPTION	
((OPTION_C)) This is optional	1078
((OPTION_D)) This is optional	1225
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$\text{GCD}(1160718174, 316258250) = 1078$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 102947526 and 239821932 using Euclidean algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	$\text{GCD}(102947526, 239821932) = 6.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 8376238 and 1921023 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	13
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	17
((OPTION_D)) This is optional	7
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	$\text{GCD}(8376238, 1921023) = 13.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 1234 mod 4321 is
((OPTION_A)) THIS IS MANDATORY OPTION	3239
((OPTION_B)) THIS IS ALSO MANDATORY	3213

OPTION	
((OPTION_C)) This is optional	3242
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The multiplicative Inverse of 1234 mod 4321 is 3239.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 550 mod 1769 is
((OPTION_A)) THIS IS MANDATORY OPTION	434
((OPTION_B)) THIS IS ALSO MANDATORY	224

OPTION	
((OPTION_C)) This is optional	550
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The multiplicative Inverse of 550 mod 1769 is 550.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p><b>You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,</b></p> $A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$ <p><b>Is the given matrix 'A', a valid key to be used for encryption?</b></p>
((OPTION_A)) THIS IS MANDATORY OPTION	Yes
((OPTION_B))	No

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Can't be determined
((OPTION_D)) This is optional	Data insufficient
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist.</p> <p>Here, in this case,</p> $  A   = 0$ <p>Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the <a href="#">Hill cipher</a>.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	The input text is divided into two parts: one being left half and another one being right half.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Swapping of the left and right halves are performed after each round.
((OPTION_C)) This is optional	The plain text is converted into a matrix form first
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Among the following given options, chose the strongest encryption technique

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	DES ( Data Encryption Standard))
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Double DES
((OPTION_C)) This is optional	Triple DES
((OPTION_D)) This is optional	AES (Advance Encryption Standard)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	<p><b>Consider the following steps,</b></p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift Rows</li> </ul>

IMAGES ALSO	<p>iii. Mix columns iv. Add round key</p> <p><b>The above steps are performed in each round of which of the following ciphers?</b></p>
((OPTION_A))  THIS IS MANDATORY OPTION	Rail fence cipher
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data Encryption Standard (DES)
((OPTION_C))  This is optional	Advance Encryption Standard (AES)
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ algorithm transforms ciphertext to plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ cipher replaces one character with another character.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ cipher reorders the plaintext characters to create a ciphertext.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the receiver uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either a or b
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is a(n) _____ method adopted by the U.S. government.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	either (a) or (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are _____ ciphers.
((OPTION_A)) THIS IS MANDATORY OPTION	block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	stream
((OPTION_C)) This is optional	field
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ cipher, the same key is used by both the sender and receiver.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ciphers can be categorized into two broad categories: monoalphabetic and polyalphabetic.
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the sender uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a(n) _____ cipher, a pair of keys is used.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	2
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES uses a _____ bit block size and a key size of _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	128; 128 or 256
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64; 128 or 192
((OPTION_C)) This is optional	256; 128, 192, or 256
((OPTION_D)) This is optional	128; 128, 192, or 256
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	It uses a 128-bit block size and a key size of 128, 192, or 256 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Like DES, AES also uses Feistel Structure.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES does not use a Feistel structure. Instead, each full round consists of four separate functions: -byte substitution -Permutation -arithmetic operations over a finite field, and -XOR with a key.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The $4 \times 4$ byte matrices in the AES algorithm are called
((OPTION_A)) THIS IS MANDATORY OPTION	States
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Words
((OPTION_C)) This is optional	Transitions
((OPTION_D)) This is optional	Permutations
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is a type of substitution cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	poly alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition cipher
((OPTION_C)) This is optional	Columnar cipher
((OPTION_D)) This is optional	Rail fence cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In substitution cipher the plain text is replaced by cipher text according to a fixed rule. There are two types of substitution cipher- Mono alphabetic and Poly alphabetic cipher.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following correctly defines poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	a substitution based cipher which uses multiple substitution at different positions
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a substitution based cipher which uses fixed substitution over entire message
((OPTION_C)) This is optional	a transposition based cipher which uses multiple substitution at different positions
((OPTION_D)) This is optional	A transposition based cipher which uses fixed substitution over entire message
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Poly alphabetic cipher is a type of substitution cipher. It uses multiple substitution at different positions in order to cipher the plain text.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a type of poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Rotor cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hill cipher
((OPTION_C)) This is optional	One time pad cipher
((OPTION_D)) This is optional	Affine cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	In poly alphabetic cipher each symbol of plain text is replaced by a different cipher text regardless of its occurrence. Out of the given options, only affine cipher is not a poly alphabetic cipher.

((MARKS)) QUESTION IS OF	2
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	We are provided the plain text "SUN". You need to convert the given plain text into ciphertext under the Ceasar cipher encryption technique. Which of the following options is the correct ciphertext for the given text if the key is 2?
((OPTION_A)) THIS IS MANDATORY OPTION	UWP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NUS
((OPTION_C)) This is optional	WUP
((OPTION_D)) This is optional	QSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>In the Caesar cipher technique, the encryption is performed as follows,</p> $E(P, K) = (P + K) \text{ mod } 26$ <p>Therefore,</p> $E(S, 2) = (18 + 2) \text{ mod } 26 = 20 = U$ $E(U, 2) = (20 + 2) \text{ mod } 26 = 22 = W$ $E(N, 2) = (13 + 2) \text{ mod } 26 = 15 = P$ <p>Hence, the ciphertext is "UWP".</p>

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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following cipher techniques include the involvement of matrix operations in their algorithms of encryption and decryption?
((OPTION_A)) THIS IS MANDATORY OPTION	<u>Hill Cipher</u>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<u>Playfair cipher</u>
((OPTION_C)) This is optional	Both a and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also	The hill cipher includes a square matrix as the key, and in Playfair cipher, we create a 5X5 matrix using the given key string. Hence,

optional	both these ciphers include the use of matrices.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Playfair cipher is an example of _____
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C)) This is optional	transposition cipher
((OPTION_D)) This is optional	additive cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	Playfair cipher is a substitution cipher. It falls under the category of poly alphabetic cipher as it uses multiple substitution at different positions in order to cipher the plain text.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Encryption in Playfair cipher is done using _
((OPTION_A)) THIS IS MANDATORY OPTION	a 5×5 table
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a 13×2 table
((OPTION_C)) This is optional	vigenere table
((OPTION_D)) This is optional	a 6×6 table
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A

((EXPLANATION)) This is also optional	
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the plain text corresponding to cipher text "BPKYFS" if playfair cipher is used with keyword as "SECRET" (assuming j is combined with i)?
((OPTION_A))  THIS IS MANDATORY OPTION	INDIAN
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	WORLD
((OPTION_C))  This is optional	DOLLAR
((OPTION_D))  This is optional	HELLO
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C

((EXPLANATION)) This is also optional	To decrypt the message we follow the reverse procedure. The table is formed in the same manner. Applying this we get the plain text to be "DOLLAR".
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair are identical?
((OPTION_A)) THIS IS MANDATORY OPTION	then that pair is neglected
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a null(or x) is added in between the letters
((OPTION_C)) This is optional	one of the identical letter is replaced by some other letter
((OPTION_D)) This is optional	then both of the letters are replaced by the letter appearing just next in the row
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	In playfair cipher if the letters in a pair are identical then a null is added in between the letters. Any letter can be used as a null as long as that letter is not the one being repeated.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same row?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter at the corner of the row
((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	If the letters in a pair appear in same row then they are replaced by the letters appearing immediately right to them respectively. If the element to be replaced appears at the corner of the row then we wrap around to the left side of that row.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the ciphered text if the string “SANFOUNDRY” is given as input to the code of playfair cipher with keyword as “SECRET” (assuming j is combined with i)?
((OPTION_A)) THIS IS MANDATORY OPTION	ZHQAPNPAFR
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AHQAPNPAFR
((OPTION_C)) This is optional	HAQAPNPAFR
((OPTION_D)) This is optional	QHAAPNPAFR
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	B

E	
((EXPLANATION)) This is also optional	<p>For encrypting the plain text using playfair cipher we use a <math>5 \times 5</math> table that is constructed by using keyword. Then we apply rules for encryption in order to get the ciphered text. Table is given as under-</p> <p>S E C R T</p> <p>A B D F G</p> <p>H I K L M</p> <p>N O P Q U</p> <p>V W X Y Z</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letters at the corner of the row
((OPTION_D))	that pair is neglected

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	If the letters in a pair appear in the same column then they are replaced by the letters appearing immediately below them respectively. If the element to be replaced appears at the corner of the column then we wrap around to the top side of that column.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair does not appear in same row or column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter of the same row at the corner of the rectangle defined by the original pair respectively

((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	If the letters in a pair does not appear in same row or column then they are replaced by the letters of the same row at the corner of the rectangle defined by the original pair respectively. The order of letters should be maintained.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Columnar cipher falls under the category of?
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C))	additive cipher

This is optional	
((OPTION_D)) This is optional	Transposition cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Columnar cipher is a transposition cipher. It falls under the category of transposition cipher as it encrypts the plain text by rearranging its letters.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following ciphered text would have NOT used transposition cipher for encryption of the plain text "CIPHER"?
((OPTION_A)) THIS IS MANDATORY OPTION	EPIHRC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EHIPCR
((OPTION_C))	DTIPRC

This is optional	
((OPTION_D))	HRIPEC
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	We know that transposition cipher encrypts the plain text by shuffling the letters of the plain text. So out of the given options, only “DTIPRC” does not have the same set of letters as “CIPHER”.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many columns do we need to have in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	4
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	5
((OPTION_C))	6

This is optional	
((OPTION_D))	7
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So in this case it will be equal to 6.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the encrypted text corresponding to plain text “CLASSIFIED” using columnar transposition cipher with a keyword as “GAMES”?
((OPTION_A)) THIS IS MANDATORY OPTION	LFDSIASECI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SECIAISDFL
((OPTION_C))	CILFAISESD

This is optional																					
((OPTION_D))	IFSECIAISD																				
This is optional																					
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CH OICE)) Either A or B or C or D or E	D																				
((EXPLANATION )) This is also optional	<p>For encrypting using columnar cipher we have to arrange the letters of the plain text in a table which has the same number of columns as the letters of the keyword. Then the letters of the keyword are arranged in alphabetical order and we read along each column.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>1</td><td>4</td><td>2</td><td>5</td></tr> <tr><td>G</td><td>A</td><td>M</td><td>E</td><td>S</td></tr> <tr><td>C</td><td>L</td><td>A</td><td>S</td><td>S</td></tr> <tr><td>I</td><td>F</td><td>I</td><td>E</td><td>D</td></tr> </table> <p>So the ciphered text will be “IFSECIAISD”.</p>	3	1	4	2	5	G	A	M	E	S	C	L	A	S	S	I	F	I	E	D
3	1	4	2	5																	
G	A	M	E	S																	
C	L	A	S	S																	
I	F	I	E	D																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many rows will the letters of the plain text occupy in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B))	2

THIS IS ALSO MANDATORY OPTION																			
((OPTION_C)) This is optional	3																		
((OPTION_D)) This is optional	4																		
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																			
((CORRECT_CHOICE)) Either A or B or C or D or E	B																		
((EXPLANATION)) This is also optional	<p>Explanation: The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So when we will write the letters of the plain text row wise then there will be 2 rows of plain text in this case. The table is shown below :-</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>S</td><td>E</td><td>C</td><td>R</td><td>E</td><td>T</td> </tr> <tr> <td>1</td><td>S</td><td>A</td><td>N</td><td>F</td><td>O</td><td>U</td> </tr> <tr> <td>2</td><td>N</td><td>D</td><td>R</td><td>Y</td> </tr> </table>	S	E	C	R	E	T	1	S	A	N	F	O	U	2	N	D	R	Y
S	E	C	R	E	T														
1	S	A	N	F	O	U													
2	N	D	R	Y															

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following statement is not true regarding columnar transposition cipher?
((OPTION_A)) THIS IS	probability of error is high while deciphering

MANDATORY OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	it cannot be combined with other ciphers
((OPTION_C)) This is optional	it is a traditional symmetric cipher
((OPTION_D)) This is optional	it is a weak cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Although columnar transposition cipher is a weak cipher in itself. But it can be combined with other substitution ciphers so as to improve its security. The probability of error remains high while decoding columnar cipher as it is a lengthy process

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is another data hiding technique which can be used in conjunction with cryptography for the extra-secure method of protecting data.
((OPTION_A))	Cryptography

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Steganography
((OPTION_C))  This is optional	Tomography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Steganography is the technique of hiding data in another raw data. Steganography is another data hiding technique which can be used in conjunction with cryptography for an extra-secure method of protecting data.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is hiding of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Steganography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Steganography helps in hiding any form of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ tool permits security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Chorography
((OPTION_D))  This is optional	Steganography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	A steganography tool is a software tool that permits a security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main motive for using steganography is that hackers or other users can hide a secret message behind a _____

((OPTION_A)) THIS IS MANDATORY OPTION	special file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ordinary file
((OPTION_C)) This is optional	program file
((OPTION_D)) This is optional	encrypted file
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	The main motive for using steganography is that hackers or other users can hide a secret message behind ordinary files. Some steganography tools are SSuite Picsel, rSteg etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	People will normally think it as a normal/regular file and your secret message will pass on without any _____

((OPTION_A)) THIS IS MANDATORY OPTION	Suspicion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	cracking
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Steganography techniques help hackers or other users to conceal covert message behind regular files. People will normally think it as a normal/regular file and your secret message will pass on without any suspicion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	By using _____ you can diminish the chance of data leakage

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C)) This is optional	Chorography
((OPTION_D)) This is optional	Steganography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Hackers or other cyber criminals target ordinary files to hide different data or information within another data file. By using steganography, you can diminish the chance of data leakage.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Which of the following is a mode of operation for the Block ciphers in cryptography?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Electronic Code Book (ECB)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher Block Chaining (CBC)
((OPTION_C)) This is optional	Counter (CTR) mode
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	For which of the following should EBC (Electronic Code Book) process not be used for encryption?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	For large block sizes
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	For fixed block sizes
((OPTION_C)) This is optional	For small block sizes
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	It is preferred that the block size in the ECB technique must be greater than 64 bits. If not, the text is padded to make it of the required length. This is due to some particular words and phrases that may be reused again often so that the same repetitive part of ciphertext can emerge as mixed.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	Which of the following is the main disadvantage of the ECB (Electronic Code Book)?

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	It requires large block size
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Padding is done to make the plain text divisible into blocks of fixed size
((OPTION_C)) This is optional	It is prone to cryptanalysis since there is a direct relationship between plain text and cipher text.
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	In <u>ECB</u> , there lies a direct relation between the plain text and the ciphertext. Therefore, it is easy for an outsider to break the encryption logic and steal the data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options is not correct according to the definition of the Cipher Block Chaining (CBC)?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC is a mode of operation for stream ciphers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Initialization vector (IV) is used in CBC in the initial phase.
((OPTION_C)) This is optional	It has better resistive nature towards cryptanalysis than ECB
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<a href="#">CBC</a> which stands for Cipher Block chaining is a mode of operation for block ciphers and not for stream ciphers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following modes of operations can be followed for both stream ciphers as well as block ciphers?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC (Cipher Block Chaining)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECB (Electronic Code Book)
((OPTION_C)) This is optional	CFB (Cipher text Feed Back)
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	<b>CFB</b> is primarily a mode to derive some characteristics of a stream cipher from a block cipher on the cryptography in cryptoanalysis.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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<p>((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO</p>	<p>All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?</p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift rows</li> <li>iii. Mix columns</li> <li>iv. Add round key</li> </ul>
<p>((OPTION_A)) THIS IS MANDATORY OPTION</p>	<p>i</p>
<p>((OPTION_B)) THIS IS ALSO MANDATORY OPTION</p>	<p>iii</p>
<p>((OPTION_C)) This is optional</p>	<p>All of the mentioned</p>
<p>((OPTION_D)) This is optional</p>	<p>None of the mentioned</p>
<p>((OPTION_E)) This is optional. If optional keep empty so that system will skip this option</p>	
<p>((CORRECT_CHOICE)) Either A or B or C or D or E</p>	<p>B</p>
<p>((EXPLANATION)) This is also optional</p>	<p>In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.</p>

<p>((MARKS))</p>	<p>1</p>
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"The number of rounds in the AES algorithm depends upon the key size being used." Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	128 key size: 10 rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	192 key size: 12 rounds
((OPTION_C)) This is optional	256 key size: 14 rounds
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Avalanche effect
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Completeness
((OPTION_C)) This is optional	Both a. and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For the AES-128 algorithm there are _____ similar rounds and _____ round is different.
((OPTION_A)) THIS IS MANDATORY OPTION	2 pair of 5 similar rounds ; every alternate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	9 ; the last
((OPTION_C)) This is optional	8 ; the first and last
((OPTION_D)) This is optional	10 ; no
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the 4 operations are false for each round in the AES algorithm? i) Substitute Bytes ii) Shift Columns iii) Mix Rows iv) XOR Key
((OPTION_A)) THIS IS MANDATORY OPTION	i) only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii) iii) and iv)
((OPTION_C)) This is optional	ii) and iii)
((OPTION_D)) This is optional	only iv
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES rounds involve substitute bytes, shift rows, mix columns and addition of round key.

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There is an addition of round key before the start of the AES round algorithms.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In AES the final round contains only three transformations, and there is an initial single transformation (Add Round Key) before the first round which can be considered Round 0. Each transformation takes $4 \times 4$ matrixes as input and produces a $4 \times 4$ matrix as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1																
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the Shifted Row transformation for the matrix bellow?  <table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_A))  THIS IS MANDATORY OPTION	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	<table border="1"> <tr> <td>72</td><td>2B</td><td>D7</td><td>FE</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>63</td><td>AD</td><td>01</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	72	2B	D7	FE	A4	6B	6B	77	63	AD	01	F0	30	D7	AF	FE
72	2B	D7	FE														
A4	6B	6B	77														
63	AD	01	F0														
30	D7	AF	FE														
((OPTION_C))  This is optional	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>77</td><td>A4</td><td>6B</td><td>6B</td></tr> <tr> <td>F0</td><td>63</td><td>AD</td><td>01</td></tr> <tr> <td>FE</td><td>30</td><td>D7</td><td>AF</td></tr> </table>	FE	72	2B	D7	77	A4	6B	6B	F0	63	AD	01	FE	30	D7	AF
FE	72	2B	D7														
77	A4	6B	6B														
F0	63	AD	01														
FE	30	D7	AF														
((OPTION_D))  This is optional	<table border="1"> <tr> <td>D7</td><td>FE</td><td>72</td><td>2B</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>01</td><td>AD</td><td>63</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	D7	FE	72	2B	A4	6B	6B	77	01	AD	63	F0	30	D7	AF	FE
D7	FE	72	2B														
A4	6B	6B	77														
01	AD	63	F0														
30	D7	AF	FE														

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The Shift Rows transformation consists of: -Not shifting the first row of the state array at all. -Circularly shifting the second row by one byte to the left. -Circularly shifting the third row by two bytes to the left, and -Circularly shifting the last row by three bytes to the left.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not weak key in DES
((OPTION_A)) THIS IS MANDATORY OPTION	0x0101010101010101
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0xEFABFEFEFEFEFEFE
((OPTION_C)) This is optional	0x1F1F1F1F0E0E0E0E
((OPTION_D))	0xFFFFFFFFFFFFFF

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple-DES has _____ keys.
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	2
((OPTION_C)) This is optional	5
((OPTION_D))	4

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a encryption technique which uses two instance of DES on same plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	Double DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripple DES
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack which can be used to break through double DES.
((OPTION_A)) THIS IS MANDATORY OPTION	Brute force
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	meet-in-the middle
((OPTION_C)) This is optional	Timing
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple DES involve __
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption, Decryption, Decryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption ,Encryption, Encryption
((OPTION_C)) This is optional	Decryption ,Encryption, Decryption
((OPTION_D))	Encryption, Decryption, Encryption

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ involves feeding the successive output blocks from the underlying block cipher back to it
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	OFB
((OPTION_D))	CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is counter-based version of CFB mode without the feedback
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	counter
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below mode is independent of previous output
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	CFB
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Errors get propagated in all modes except ___and ___
((OPTION_A)) THIS IS MANDATORY OPTION	ECB,COUNTER
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC,COUNTER
((OPTION_C)) This is optional	CFB,COUNTER
((OPTION_D))	OFB,CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Patterns are not preserved in ___ mode
((OPTION_A)) THIS IS MANDATORY OPTION	CBC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CFB
((OPTION_C)) This is optional	Both CBC and CFB
((OPTION_D))	ECB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A small change in plaintext results in the very great change in the cipher text indicates which characteristic
((OPTION_A)) THIS IS MANDATORY OPTION	completeness
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Strong key
((OPTION_C)) This is optional	Avalanche effect
((OPTION_D))	All of the above

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ ciphers, the plaintext is processed one bit at a time i.e. one bit of plaintext is taken, and a series of operations is performed on it to generate one bit of cipher text.
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	More number of _____ provide more secure system in feistel cipher.
((OPTION_A)) THIS IS MANDATORY OPTION	rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	keys
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	Function
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The number of rounds used in a Feistel Cipher depends on desired security from the system. More number of rounds provide more secure system. But at the same time, more rounds mean the inefficient slow encryption and decryption processes..

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a threat to information security?
((OPTION_A)) THIS IS MANDATORY OPTION	Disaster
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Eavesdropping
((OPTION_C)) This is optional	Information leakage
((OPTION_D)) This is optional	Unchanged default password
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Disaster, eavesdropping and information leakage come under information security threats whereas not changing the default password of any system, hardware or any software comes under the category of vulnerabilities that the user may pose to its system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compromising confidential information comes under
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	Threats are anything that may cause damage or harm to a computer system, individual or any information. Compromising of confidential information means extracting out sensitive data from a system by illegal manner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Lack of access control policy is a
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Access control policies are incorporated to a security system for restricting of unauthorised access to any logical or physical system. Every security compliance program must need this as a fundamental component. Those systems which lack this feature is vulnerable.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Possible threat to any information cannot be
((OPTION_A)) THIS IS MANDATORY OPTION	reduced
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transferred
((OPTION_C)) This is optional	protected
((OPTION_D)) This is optional	ignored
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	When there lies a threat to any system, safeguards can be implemented, outsourced, distributed or transferred to some other system, protected using security tools and techniques but cannot be ignored.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?
((OPTION_A))  THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))  This is optional	Authenticity
((OPTION_D))  This is optional	Availability
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	According to the CIA triad the three components that a security need is the Confidentiality, Integrity, Availability (as in short read as

		
CIA).		

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When you use the word _____ it means you are protecting your data from getting disclosed.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	

((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Confidentiality is what every individual prefer in terms of physical privacy as well as digital privacy. This term means our information needs to be protected from getting disclose to unauthorised parties, for which we use different security mechanisms like password protection, biometric security, OTPs (One Time Passwords) etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ means the protection of data from modification by unknown users.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Non-repudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	A information only seems valuable if it is correct and do not get modified during its journey in the course of arrival. The element integrity makes sure that the data sent or generated from other end is correct and is not modified by any unauthorised party in between.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When integrity is lacking in a security system, _____ occurs.
((OPTION_A)) THIS IS MANDATORY OPTION	Database hacking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data deletion
((OPTION_C)) This is optional	Data tampering
((OPTION_D)) This is optional	Data leakage
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The term data tampering is used when integrity is compromised in any security model and checking its integrity later becomes costlier. Example: let suppose you sent \$50 to an authorised person and in between a Man in the Middle (MiTM) attack takes place and the value has tampered to \$500. This is how integrity is compromised.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	of information means, only authorised users are capable of accessing the information.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional.	

If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Information seems useful only when right people (authorised users) access it after going through proper authenticity check. The key element availability ensures that only authorised users are able to access the information.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
((OPTION_A)) THIS IS MANDATORY OPTION	They help understanding hacking better
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	They are key elements to a security breach
((OPTION_C)) This is optional	They help understands security and its components better
((OPTION_D)) This is optional	They help to understand the cyber-crime better
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The four elements of security viz. confidentiality, integrity, authenticity & availability helps in better understanding the pillars of security and its different components.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This helps in identifying the origin of information and authentic user. This referred to here as
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The key element, authenticity helps in assuring the fact that the information is from the original source.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data _____ is used to ensure confidentiality.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Locking
((OPTION_C)) This is optional	Deleting
((OPTION_D)) This is optional	Backup
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Data encryption is the method of converting plain text to cipher-text and only authorised users can decrypt the message back to plain text. This preserves the confidentiality of data

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is not a proper method of maintaining AUTHENTICATION?
((OPTION_A)) THIS IS MANDATORY OPTION	Biometric verification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ID and password based verification
((OPTION_C)) This is optional	2-factor authentication
((OPTION_D)) This is optional	switching off the phone
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Switching off the phone in the fear of preserving the confidentiality of data is not a proper solution for data confidentiality. Fingerprint detection, face recognition, password-based authentication, two-step verifications are some of these.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data integrity gets compromised when _____ and _____ are taken control off.
((OPTION_A)) THIS IS MANDATORY OPTION	Access control, file deletion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Network, file permission
((OPTION_C)) This is optional	Access control, file permission
((OPTION_D)) This is optional	Network, system

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The two key ingredients that need to be kept safe are: access control & file permission in order to preserve data integrity.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One common way to maintain data availability is
((OPTION_A)) THIS IS MANDATORY OPTION	Data clustering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data backup
((OPTION_C)) This is optional	Data recovery
((OPTION_D)) This is optional	Data Altering

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	For preventing data from data-loss, or damage data backup can be done and stored in a different geographical location so that it can sustain its data from natural disasters & unpredictable events.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hackers who help in finding bugs and vulnerabilities in a system & don't intend to crack a system are termed as
((OPTION_A)) THIS IS MANDATORY OPTION	Black Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Grey Hat Hackers
((OPTION_D)) This is optional	Red Hat Hackers

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	White Hat Hackers are cyber security analysts and consultants who have the intent to help firms and Governments in the identification of loopholes as well as help to perform penetration tests for securing a system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the legal form of hacking based on which jobs are provided in IT industries and firms?
((OPTION_A)) THIS IS MANDATORY OPTION	Cracking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Non ethical Hacking
((OPTION_C)) This is optional	Ethical hacking
((OPTION_D))	Hactivism

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Ethical Hacking is an ethical form of hacking done by white-hat hackers for performing penetration tests and identifying potential threats in any organizations and firms.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	They are nefarious hackers, and their main motive is to gain financial profit by doing cyber crimes. Who are "they" referred to here?
((OPTION_A)) THIS IS MANDATORY OPTION	Gray Hat Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Hactivists
((OPTION_D))	Black Hat Hackers

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Black Hat hackers also termed as 'crackers' and are a major type of cyber criminals who take unauthorized access in user's account or system and steal sensitive data or inject malware into the system for their profit or to harm the organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are the combination of both white as well as black hat hackers.
((OPTION_A)) THIS IS MANDATORY OPTION	Grey Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Green Hat hackers
((OPTION_C)) This is optional	Blue Hat Hackers

((OPTION_D)) This is optional	Red Hat Hacker
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Grey Hat Hackers have a blending character of both ethical as well as un-ethical hacker. They hack other's systems for fun but do not harm the system, exploits bugs and vulnerabilities in network without the knowledge of the admin or the owner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The amateur or newbie in the field of hacking who don't have many skills about coding and in-depth working of security and hacking tools are called _____
((OPTION_A)) THIS IS MANDATORY OPTION	Sponsored Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hactivists
((OPTION_C))	Script Kiddies

This is optional	
((OPTION_D))	Whistle Blowers
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Script Kiddies are new to hacking and at the same time do not have many interests in developing coding skills or find bugs of their own in systems; rather they prefer downloading of available tools (developed by elite hackers) and use them to break any system or network. They just try to gain attention of their friend circles.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suicide Hackers are those _____
((OPTION_A)) THIS IS MANDATORY OPTION	who break a system for some specific purpose with or without keeping in mind that they may suffer long term imprisonment due to their malicious activity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	individuals with no knowledge of codes but an expert in using hacking tools

((OPTION_C)) This is optional	who know the consequences of their hacking activities and hence try to prevent them by erasing their digital footprints
((OPTION_D)) This is optional	who are employed in an organization to do malicious activities on other firms
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Suicide hackers are those who break into any network or system with or without knowing the consequences of the cyber crime and its penalty. There are some suicide hackers who intentionally do crimes and get caught to bring their names in the headlines.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Criminal minded individuals who work for terrorist organizations and steal information of nations and other secret intelligence are _____
((OPTION_A)) THIS IS MANDATORY OPTION	State sponsored hackers
((OPTION_B)) THIS IS ALSO MANDATORY	Blue Hat Hackers

OPTION	
((OPTION_C)) This is optional	Cyber Terrorists
((OPTION_D)) This is optional	Red Hat Hackers
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Cyber Terrorists are very expert programmers and cyber criminals who hide themselves while doing malicious activities over the internet and they are smart enough to hide themselves or their tracks of action. They are hired for gaining unauthorised access to nation's data centres or break into the network of intelligence agencies.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are those individuals who maintain and handles IT security in any firm or organization.
((OPTION_A)) THIS IS MANDATORY OPTION	IT Security Engineer
((OPTION_B))	Cyber Security Interns

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Software Security Specialist
((OPTION_D)) This is optional	Security Auditor
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is an intermediary level of position of an individual in an organization or firm who builds and preserves different systems and its associated security tools of the firm of organization to which he/she belongs.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Role of security auditor is to _____
((OPTION_A)) THIS IS MANDATORY OPTION	secure the network

((OPTION_B)) THIS IS ALSO MANDATORY OPTION	probe for safety and security of organization's security components and systems
((OPTION_C)) This is optional	detects and prevents cyber attacks and threats to organization
((OPTION_D)) This is optional	does penetration testing on different web applications
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Security auditors are those who conduct auditing of various computer and network systems on an organization or company and reports the safety and security issues as well as helps in suggesting improvements or enhancements in any particular system that is threat prone.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are senior level corporate employees who have the role and responsibilities of creating and designing secured network or security structures.
((OPTION_A)) THIS IS MANDATORY	Ethical Hackers

OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Chief Technical Officer
((OPTION_C)) This is optional	IT Security Engineers
((OPTION_D)) This is optional	Security Architect
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Security architect are those senior grade employees of an organization who are in charge of building, designing, implementing and testing of secured network topologies, protocols as well as secured computers in an organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Governments hired some highly skilled hackers. These types of hackers are termed as _____
((OPTION_A)) THIS IS	Special Hackers

MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Government Hackers
((OPTION_C))  This is optional	Cyber Intelligence Agents
((OPTION_D))  This is optional	Nation / State sponsored hackers
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Nation / State sponsored hackers are specific individuals who are employed or hired by the government of that nation or state and protect the nation from cyber terrorists and other groups or individuals and to reveal their plans, communications and actions.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The full form of Malware is _____
((OPTION_A))	Malfunctioned Software

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Multipurpose Software
((OPTION_C))  This is optional	) Malicious Software
((OPTION_D))  This is optional	Malfunctioning of Security
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Different types of harmful software and programs that can pose threats to a system, network or anything related to cyberspace are termed as Malware. Examples of some common malware are Virus, Trojans, Ransomware, spyware, worms, rootkits etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who deploy Malwares to a system or network?

((OPTION_A)) THIS IS MANDATORY OPTION	Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Criminal organizations, gray hat hackers, Malware developers, Penetration testers
((OPTION_C)) This is optional	) Criminal organizations, Black hat hackers, software developers, cyber-terrorists
((OPTION_D)) This is optional	Criminal organizations, White hat hackers, malware developers, cyber-terrorists
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Criminal-minded organizations, groups and individuals cyber-terrorist groups, Black hat hackers, malware developers etc are those who can deploy malwares to any target system or network in order to deface that system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	_____ is a code injecting method used for attacking the database of a system / website.

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	HTML injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SQL Injection
((OPTION_C)) This is optional	Malicious code injection
((OPTION_D)) This is optional	XML Injection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	SQLi (Structured Query Language Injection) is a popular attack where SQL code is targeted or injected; for breaking the web application having SQL vulnerabilities. This allows the attacker to run malicious code and take access to the database of that server.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN	This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here?

CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	SQL injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	HTML Injection
((OPTION_C)) This is optional	Cross Site Scripting (XSS)
((OPTION_D)) This is optional	Cross Site Request Forgery (XSRF)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	XSS attack can be infused by putting the malicious code (which gets automatically run) in any comment section or feedback section of any webpage (usually a blogging page). This can hamper the reputation of a site and the attacker may place any private data or personal credentials.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cyber-crime
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cyber Attack
((OPTION_C)) This is optional	System hijacking
((OPTION_D)) This is optional	Digital crime
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cyber attack is an umbrella term used to classify different computer & network attacks or activities such as extortion, identity theft, email hacking, digital spying, stealing hardware, mobile hacking and physical security breaching.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a set of conventions & rules set for communicating two or more devices residing in the same network?
((OPTION_A))  THIS IS MANDATORY OPTION	Security policies
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Protocols
((OPTION_C))  This is optional	Wireless network
((OPTION_D))  This is optional	Network algorithms
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Network protocols are designed with mechanisms for identifying devices and make connections between them. In addition, some proper rules are defined as to how data packets will be sent and received.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The field that covers a variety of computer networks, both public and private, that are used in everyday jobs
((OPTION_A)) THIS IS MANDATORY OPTION	Artificial Intelligence
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ML
((OPTION_C)) This is optional	Network Security
((OPTION_D)) This is optional	IT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Network security covers a variety of computer networks, both private and public. Everyday jobs like conducting transactions and communications among business and government agencies etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network Security provides authentication and access control for resources.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is not an objective of network security?
((OPTION_A)) THIS IS MANDATORY OPTION	Identification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	Access control
((OPTION_D)) This is optional	Lock
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The Identification, Authentication and Access control are the objectives of network security. There is no such thing called lock.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is a part of network identification?
((OPTION_A)) THIS IS MANDATORY OPTION	UserID
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Password
((OPTION_C)) This is optional	OTP
((OPTION_D)) This is optional	fingerprint
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The answer is UserID. UserID is a part of identification. UserID can be a combination of username, user student number etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of verifying the identity of a user.
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Verification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	It is called an authentication. It is typically based on passwords, smart card, fingerprint, etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security features that control that can access resources in the OS
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Access control
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Access control refers to the security features. Applications call access control to provide resources

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm in encryption is called
((OPTION_A)) THIS IS MANDATORY OPTION	Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Procedure
((OPTION_C)) This is optional	Cipher
((OPTION_D)) This is optional	Module
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	An algorithm used in encryption is referred to as a cipher. cipher is an algorithm for performing encryption or decryption

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The information that gets transformed in encryption is
((OPTION_A)) THIS IS MANDATORY OPTION	Plain text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Parallel text
((OPTION_C)) This is optional	Encrypted text
((OPTION_D)) This is optional	Decrypted text
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The text that gets transformed is called plain text. The algorithm used is called cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The type of threats on the security of a computer system or network are..... i) Interruption ii) Interception iii) Modification iv) Creation v) Fabrication
((OPTION_A)) THIS IS MANDATORY OPTION	i, ii, iii and iv only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii, iii, iv and v only
((OPTION_C)) This is optional	i, ii, iii and v only
((OPTION_D)) This is optional	All i, ii, iii, iv and v
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is computer threat?
((OPTION_A))  THIS IS MANDATORY OPTION	Phishing
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Soliciting
((OPTION_C))  This is optional	DoS attack
((OPTION_D))  This is optional	stalking
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a term used in cryptography that refers to a message before encryption or after decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PLAIN TEXT
((OPTION_C)) This is optional	Original text
((OPTION_D)) This is optional	Plain script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ is encrypted text
((OPTION_A)) THIS IS MANDATORY OPTION	cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cipher script
((OPTION_C)) This is optional	secret text
((OPTION_D)) This is optional	secret script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An _____ along with a key is used in the encryption
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption algorithm
((OPTION_C)) This is optional	encryption algorithm
((OPTION_D)) This is optional	plain text algorithm
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that sensitive information are accessed only by an authorized person and kept away from those not authorized to possess them.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Cryptography
((OPTION_D)) This is optional	Integrity
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information are in a format that is true and correct to its original purposes.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	integrity
((OPTION_D)) This is optional	cryptography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information and resources are available to those who need them.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Availability</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Confidentiality</b>
((OPTION_C)) This is optional	<b>Cryptography</b>
((OPTION_D)) This is optional	<b>Integrity</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of identifying an individual, usually based on a username and password.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither authentication nor authorization</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of giving individuals access to system objects based on their identity.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither congestion control nor quality of service</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	when someone gains access to a server, website, or other sensitive data using someone else's account details called as
((OPTION_A)) THIS IS MANDATORY OPTION	Authorized access
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Access control
((OPTION_C)) This is optional	Unauthorized access
((OPTION_D)) This is optional	access
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Person who tries and exploits a computer system for a reason which can be money, a social cause, fun etc.called as
((OPTION_A)) THIS IS MANDATORY OPTION	Thief
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	hacker
((OPTION_C)) This is optional	attacker
((OPTION_D)) This is optional	criminal
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is an action or event that might compromise the security.
((OPTION_A))  THIS IS MANDATORY OPTION	Threat
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C))  This is optional	Protect
((OPTION_D))  This is optional	attack
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a weakness, a design problem or implementation error in a system that can lead to an unexpected and undesirable event regarding security system
((OPTION_A)) THIS IS MANDATORY OPTION	threat
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C)) This is optional	Attack
((OPTION_D)) This is optional	Protection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a software that operates on different OS which is used to prevent from malicious software.
((OPTION_A)) THIS IS MANDATORY OPTION	Anti virus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	virus
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	risk
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a technique that a hacker uses to stole data by a person for different purposes by psychological manipulation combined with social scenes.
((OPTION_A)) THIS IS MANDATORY OPTION	Social Engineering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IT engineering
((OPTION_C)) This is optional	Psycology
((OPTION_D)) This is optional	Social engineering
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is a software or hardware which is used to filter network traffic based on rules.
((OPTION_A)) THIS IS MANDATORY OPTION	antivirus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firewall
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	keylogger
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not Basic Functions of Antivirus Engines
((OPTION_A)) THIS IS MANDATORY OPTION	Scanning
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity Checking
((OPTION_C)) This is optional	Interception
((OPTION_D)) This is optional	Evesdropping
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is name of antivirus
((OPTION_A))  THIS IS MANDATORY OPTION	AVG
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	PAN
((OPTION_C))  This is optional	SACK
((OPTION_D))  This is optional	FIREP
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hacking tools that can be found very easily by everyone just by googling and they are endless.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Potential Losses due to Security Attacks doesn't involve _____
((OPTION_A)) THIS IS MANDATORY OPTION	Losing your data
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Bad usage of your computer resources
((OPTION_C)) This is optional	Reputation gain
((OPTION_D)) This is optional	Identity theft
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Reputation loss is part of it and not gain

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not malware category?
((OPTION_A))  THIS IS MANDATORY OPTION	Worms
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Viruses
((OPTION_C))  This is optional	Trojans
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	All are malware categories

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ encrypts all your data when your computer gets infected and the second is to roll back the data at a specific time you want.
((OPTION_A)) THIS IS MANDATORY OPTION	ransomware
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firmware
((OPTION_C)) This is optional	middleware
((OPTION_D)) This is optional	Cyber ware
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	this network is created between two secure network devices like two firewalls.
((OPTION_A)) THIS IS MANDATORY OPTION	LAN
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAN
((OPTION_C)) This is optional	VPN
((OPTION_D)) This is optional	WAN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Virtual private network

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Name of the attack when integrity is compromised is called as _____
((OPTION_A))  THIS IS MANDATORY OPTION	Fabrication
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	interception
((OPTION_C))  This is optional	Interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack made on confidentiality is __
((OPTION_A))  THIS IS MANDATORY OPTION	interception
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C))  This is optional	interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	an attack on availability such as a denial of service attack (or DOS)
((OPTION_A))  THIS IS MANDATORY OPTION	Interruption
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Interception
((OPTION_C))  This is optional	fabrication
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An unauthorized party inserts counterfeit objects into the system and basically attacks the authenticity of the system.
((OPTION_A)) THIS IS MANDATORY OPTION	modification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	interruption
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack in which a network service is made degraded or unavailable for legitimate use
((OPTION_A)) THIS IS MANDATORY OPTION	Interruption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is assurance that someone cannot deny something.
((OPTION_A))  THIS IS MANDATORY OPTION	availability
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	confidentiality
((OPTION_C))  This is optional	Access control
((OPTION_D))  This is optional	Non-repudiation
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the purpose of a Denial of Service attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Exploit a weakness in the TCP/IP stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	To execute a Trojan on a system
((OPTION_C))  This is optional	To overload a system so it is no longer operational
((OPTION_D))  This is optional	To shutdown services by turning them off
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	DoS attacks force systems to stop responding by overloading the processing of the system

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What are some of the most common vulnerabilities that exist in a network or system?
((OPTION_A)) THIS IS MANDATORY OPTION	Changing manufacturer, or recommended, settings of a newly installed application.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additional unused features on commercial software packages
((OPTION_C)) This is optional	Utilizing open source application code
((OPTION_D)) This is optional	Balancing security concerns with functionality and ease of use of a system.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Linux is an open source code and considered to have greater security than the commercial Windows environment

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Sniffing is used to perform _____ fingerprinting
((OPTION_A))  THIS IS MANDATORY OPTION	Passive stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active stack
((OPTION_C))  This is optional	Passive banner grabbing
((OPTION_D))  This is optional	Scanned
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Passive stack fingerprinting uses sniffing technologies instead of scanning

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a principle of data security?
((OPTION_A)) THIS IS MANDATORY OPTION	Data Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following attacks is a passive attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Masquerade
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Modification of message
((OPTION_C))  This is optional	Denial of service
((OPTION_D))  This is optional	Traffic analysis
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	In a passive attack, the attacker does not modify any part of the data. His attempt is only to obtain the information and not to modify it. From the mentioned options, this happens only in Traffic analysis in which the attacker monitors the pattern of transmission. The rest other options are examples of active attacks.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options correctly defines the Brute force attack?
((OPTION_A)) THIS IS MANDATORY OPTION	Brutally forcing the user to share the useful information like pins and passwords.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Trying every possible key to decrypt the message.
((OPTION_C)) This is optional	One entity pretends to be some other entity
((OPTION_D)) This is optional	The message or information is modified before sending it to the receiver.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"A key is a string of bits used by a cryptographic algorithm to transform plain text into ciphertext." Which of the following is capable of becoming a key in a cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	Integer value
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Square matrix
((OPTION_C)) This is optional	An array of characters
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	measures taken by any enterprise or organisation to secure its computer network and data using both hardware and software systems is called as
((OPTION_A)) THIS IS MANDATORY OPTION	Network security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Information security
((OPTION_C)) This is optional	Cyber security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	phishing and pre-texting is part of _____
((OPTION_A)) THIS IS MANDATORY OPTION	<b>NETWORK SECURITY</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>CYBER SECURITY</b>
((OPTION_C)) This is optional	Internet security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures to protect the transit data only.
((OPTION_A))  THIS IS MANDATORY OPTION	NETWORK SECURITY
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Internet security
((OPTION_C))  This is optional	Information security
((OPTION_D))  This is optional	Cyber security
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is danger for <b>Integrity</b> as well as <b>availability</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is danger for <b>Confidentiality</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ attack attention is on detection.
((OPTION_A))  THIS IS MANDATORY OPTION	Passive attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active Attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ attack attention is on prevention.
((OPTION_A))  THIS IS MANDATORY OPTION	Active attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Due to ___ attack system is always damaged.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	Both active and passive
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	due to _____ attack, there is no any harm to the system.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack is tough to restrict from entering systems or networks.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Attack is easy to prohibited in comparison to _____ attack.
((OPTION_A)) THIS IS MANDATORY OPTION	Active,passive
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive,active
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not active attack
((OPTION_A)) THIS IS MANDATORY OPTION	Denial of service (DoS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	replay
((OPTION_C)) This is optional	Trojans
((OPTION_D)) This is optional	traffic analysis
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In __ <b>attack</b> , an attacker tries to modify the content of the messages.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ <b>attack</b> , an attacker observes the messages, copy them and may use them for malicious purposes
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is state of being free from potential threats or dangers
((OPTION_A))  THIS IS MANDATORY OPTION	privacy
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	freedom
((OPTION_C))  This is optional	security
((OPTION_D))  This is optional	independence
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ refers to the state of being free from unwanted attention.
((OPTION_A)) THIS IS MANDATORY OPTION	Freedom
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Privacy
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ can be achieved without _____ but _____ cannot be achieved without _____.
((OPTION_A)) THIS IS MANDATORY OPTION	Security,privacy,privacy security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy,security,security,privacy
((OPTION_C)) This is optional	Security,privacy,privacy,privacy
((OPTION_D)) This is optional	Security,security,privacy,security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program refers to a set of protocols and regulations set in place to protect all the confidential information assets and resources that an organization collects and owns.
((OPTION_A)) THIS IS MANDATORY OPTION	Privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program focuses on protecting only personal information such as log in credentials, passwords, etc.
((OPTION_A)) THIS IS MANDATORY OPTION	Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

Sr.No	Questions	Correct Answer
1.	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?  a) Confidentiality b) Integrity c) Authenticity d) Availability	C
2.	CIA triad is also known as _____  a) NIC (Non-repudiation, Integrity, Confidentiality) b) AIC (Availability, Integrity, Confidentiality) c) AIN (Availability, Integrity, Non-repudiation) d) AIC (Authenticity, Integrity, Confidentiality)	B
3.	_____ of information means, only authorised users are capable of accessing the information.  a) Confidentiality b) Integrity c) Non-repudiation d) Availability	A
4.	_____ means the protection of data from modification by unknown users.  a) Confidentiality b) Integrity c) Authentication d) Non-repudiation	B
5.	When you use the word _____ it means you are protecting your data from getting disclosed.  a) Confidentiality b) Integrity c) Authentication d) Availability	A
6.	When integrity is lacking in a security system, _____ occurs.  a) Database hacking b) Data deletion c) Data tampering d) Data leakage	C
7.	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?  a) They help understanding hacking better b) They are key elements to a security breach c) They help understand security and its components better d) They help to understand the cyber-crime better	C

8.	<p>This helps in identifying the origin of information and authentic user. This referred to here as _____</p> <p>a) Confidentiality b) Integrity c) Authenticity d) Availability</p>	C
9.	<p>Data _____ is used to ensure confidentiality.</p> <p>a) Encryption b) Locking c) Deleting d) Backup</p>	A
10.	<p>Data integrity gets compromised when _____ and _____ are taken control off.</p> <p>a) Access control, file deletion b) Network, file permission c) Access control, file permission d) Network, system</p>	C
11.	<p>_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.</p> <p>a) Network Security b) Database Security c) Information Security d) Physical Security</p>	C
12.	<p>From the options below, which of them is not a threat to information security?</p> <p>a) Disaster b) Eavesdropping c) Information leakage d) Unchanged default password</p>	D
13.	<p>Compromising confidential information comes under _____</p> <p>a) Bug b) Threat c) Vulnerability d) Attack</p>	B
14.	<p>Which of the following are not security policies?</p> <p>a)Regulatory b)Advisory c)Availability d)User Policies</p>	C

15.	Examples of User Policies is/are:  a)Password Policies b)Internet Usage c)System Use d)All of the above	D
16.	_____ Policy ensures that the organization is maintaining standards set by specific industry regulation.  a)Regulatory b)Advisory c)Availability d>User Policies	A
17.	_____ Policy is like standards rules and regulations set by the management to advise their employees on their activity or behavior  a)Regulatory b)Advisory c)Availability d>User Policies	B
18.	What defines the restrictions on employees such as usage?  a)Regulatory b)Advisory c)Availability d>User Policies	D
19.	The full form of OSI is OSI model is _____  a) Open Systems Interconnection b) Open Software Interconnection c) Open Systems Internet d) Open Software Internet	A
20.	In _____ layer, vulnerabilities are directly associated with physical access to networks and hardware.  a) physical b) data-link c) network d) application	A
21.	Loss of power and unauthorized change in the functional unit of hardware comes under problems and issues of the physical layer.  a) True b) False	A

22.	Which of the following attack can actively modify communications or data?  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	C
23.	OSI architecture mainly focuses on:  1) Security Attack 2) Security Techniques/Mechanisms 3) Categories of Security Service  a)1 b)1 &3 c) 2& 3 d)1,2,3	D
24.	IT security department must periodically check for security logs and entries made during office hours.  a) True b) False	A
25.	Release of Message Content and Traffic analysis are type of :  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	D
26.	If communication between 2 people is overheard by a third person without manipulation of any data, it is called as:  a) Release of Message Content-Passive Attack b) Traffic analysis -Passive Attacks c) Release of Message Content- Active Attacks d) Traffic analysis -Active Attacks	A
27.	If communication between 2 people is overheard by a third person without extraction of any data, it is called as:  a) Release of Message Content-Passive Attack b) Traffic analysis -Passive Attacks c) Release of Message Content- Active Attacks d) Traffic analysis -Active Attacks	D
28.	No modification of data is a characteristic of  a)Active Attack b)Passive Attack	A
29.	Which of the following are Active attack types	D

	a)Masquerade b)Replay c)Modification d)All of the above	
30.	_____ means when an attacker pretends to be authentic user  a)Masquerade b)Replay c)Modification d)Traffic analysis	A
31.	_____ attack is when original data is modified and malicious data is inserted  a)Masquerade b)Replay(Rewrite) c)Modification d)Traffic analysis	B
32.	When original data is changed to make it non-meaningful by attacker it is known as  a)Masquerade b)Replay c)Modification of Messages d)Traffic analysis	C
33.	Which is the type of attack when Network is made unavailable for user  a)Masquerade b)Replay c)Modification d)Denial of Service	D
34.	Modification of Data is done in:  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	A
35.	The information that gets transformed in encryption is  a) Plain text b) Parallel text c) Encrypted text d) Decrypted text	A
36.	1. The process of transforming plain text into unreadable text.	B

	a) Decryption b) Encryption c) Network Security d) Information Hiding	
37.	A process of making the encrypted text readable again.  a) Decryption b) Encryption c) Network Security d) Information Hiding	A
38.	A unique piece of information that is used in encryption.  a) Cipher b) Plain Text c) Key d) Cipher	C
39.	Assurance that authentic user is taking part in communication is:  a)Authentication b)Authorization c)Access Control d)Auditing	A
40.	ATM pin while withdrawing money is an example of using:  a)Authentication b)Authorization c)Access Control d)Auditing	B
41.	Study of creating a d using encryption and decryption techniques.  a) Cipher b) Cryptography c) Encryption d) Decryption	B
42.	An attack in which the user receives unwanted amount of e-mails.  a) Smurfing b) Denial of service c) E-mail bombing d) Ping storm	C
43.	The process of disguising plaintext in such a way that its substance gets hidden (into what is known as cipher-text) is called	D

	a) cryptanalysis b) decryption c) reverse engineering d) encryption	
44.	In _____ same keys are implemented for encrypting as well as decrypting the information.  a) Symmetric Key Encryption b) Asymmetric Key Encryption c) Asymmetric Key Decryption d) Hash-based Key Encryption	A
45.	The procedure to add bits to the last block is termed as _____  a) decryption b) hashing c) tuning d) padding	D
46.	In asymmetric key cryptography, the private key is kept by _____  a) sender b) receiver c) sender and receiver d) all the connected devices to the network	B
47.	Cryptanalysis is used _____ a) to find some insecurity in a cryptographic scheme b) to increase the speed c) to encrypt the data d) to make new ciphers	A
48.	Conventional cryptography is also known as _____ or symmetric-key encryption.  a) secret-key b) public key c) protected key d) primary key	A
49.	_____ is the art & science of cracking the cipher-text without knowing the key.  a) Cracking b) Cryptanalysis c) Cryptography d) Crypto-hacking	B
50.	In _____ a sequence of actions is carried out on this block after a block of plain-text bits is chosen for generating a block of cipher-text bits.	A

- |  |   |  |
|--|---|--|
|  | a) Block Cipher<br>b) One-time pad<br>c) Hash functions<br>d) Vigenere Cipher |  |
|--|---|--|

- a) Block Cipher
- b) One-time pad
- c) Hash functions
- d) Vigenere Cipher

## Question Bank for Information and Cyber Security (ICS)

### 1. Why would a hacker use a proxy server?

- A. To create a stronger connection with the target.
- B. To create a ghost server on the network.
- C. To obtain a remote access connection.
- D. To hide malicious activity on the network.

**Correct Answer – D**

**Explanation –** Proxy servers exist to act as an intermediary between the hacker and the target and services to keep the hacker anonymous to the network.

### 2. What type of symmetric key algorithm using a streaming cipher to encrypt information?

- A. RC4
- B. Blowfish
- C. SHA
- D. MD5

**Correct Answer – A**

**Explanation –** RC4 uses streaming ciphers.

### 3. Which of the following is not a factor in securing the environment against an attack on security?

- A. The education of the attacker
- B. The system configuration
- C. The network architecture
- D. The business strategy of the company
- E. The level of access provided to employees

**Correct Answer – D**

**Explanation –** All of the answers are factors supporting the exploitation or prevention of an attack. The business strategy may provide the motivation for a potential attack, but by itself will not influence the outcome.

### 4. What type of attack uses a fraudulent server with a relay address?

- A. NTLM
- B. MITM
- C. NetBIOS
- D. SMB

**Correct Answer – B**

**Explanation –** MITM (Man in the Middle) attacks create a server with a relay address. It is used in SMB relay attacks.

### 5. What port is used to connect to the Active Directory in Windows 2000?

- A. 80
- B. 445
- C. 139
- D. 389

**Correct Answer – D**

**Explanation –** The Active Directory Administration Tool used for a Windows 2000 LDAP client uses port 389 to connect to the Active Directory service.

### 6. To hide information inside a picture, what technology is used?

- A. Rootkits
- B. Bitmapping

- C. Steganography
- D. Image Rendering

**Correct Answer – C**

**Explanation** – Steganography is the right answer and can be used to hide information in pictures, music, or videos.

**7. Which phase of hacking performs actual attack on a network or system?**

- A. Reconnaissance
- B. Maintaining Access
- C. Scanning
- D. Gaining Access

**Correct Answer – D**

**Explanation** – In the process of hacking, actual attacks are performed when gaining access, or ownership, of the network or system. Reconnaissance and Scanning are information gathering steps to identify the best possible action for staging the attack. Maintaining access attempts to prolong the attack.

**8. Attempting to gain access to a network using an employee's credentials is called the \_\_\_\_\_ mode of ethical hacking.**

- A. Local networking
- B. Social engineering
- C. Physical entry
- D. Remote networking

**Correct Answer – A**

**Explanation** – Local networking uses an employee's credentials, or access rights, to gain access to the network. Physical entry uses credentials to gain access to the physical IT infrastructure.

**9. Which Federal Code applies the consequences of hacking activities that disrupt subway transit systems?**

- A. Electronic Communications Interception of Oral Communications
- B. 18 U.S.C. § 1029
- C. Cyber Security Enhancement Act 2002
- D. 18 U.S.C. § 1030

**Correct Answer – C**

**Explanation** – The Cyber Security Enhancement Act 2002 deals with life sentences for hackers who recklessly endanger the lives of others, specifically transportation systems.

**10. Which of the following is not a typical characteristic of an ethical hacker?**

- A. Excellent knowledge of Windows.
- B. Understands the process of exploiting network vulnerabilities.
- C. Patience, persistence and perseverance.
- D. Has the highest level of security for the organization.

**Correct Answer – D**

**Explanation** – Each answer has validity as a characteristic of an ethical hacker. Though having the highest security clearance is ideal, it is not always the case in an organization.

**11. What is the proper command to perform an Nmap XMAS scan every 15seconds?**

- A. nmap -sX -sneaky
- B. nmap -sX -paranoid
- C. nmap -sX -aggressive
- D. nmap -sX -polite

**Correct Answer – A**

**Explanation** – SX is used to identify a xmas scan, while sneaky performs scans 15 seconds apart.

**12. What type of rootkit will patch, hook, or replace the version of system call in order to hide information?**

- A. Library level rootkits
- B. Kernel level rootkits
- C. System level rootkits
- D. Application level rootkits

**Correct Answer – A**

**Explanation** – Library leve rootkits is the correct answer. Kerel level focuses on replaceing specific code while application level will concentrate on modifying the behavior of the application or replacing application binaries. The type, system level, does not exist for rootkits.

**13. What is the purpose of a Denial of Service attack?**

- A. Exploit a weakness in the TCP/IP stack
- B. To execute a Trojan on a system
- C. To overload a system so it is no longer operational
- D. To shutdown services by turning them off

**Correct Answer – C**

**Explanation** – DoS attacks force systems to stop responding by overloading the processing of the system.

**14. What are some of the most common vulnerabilities that exist in a network or system?**

- A. Changing manufacturer, or recommended, settings of a newly installed application.
- B. Additional unused features on commercial software packages.
- C. Utilizing open source application code
- D. Balancing security concerns with functionality and ease of use of a system.

**Correct Answer – B**

**Explanation** – Linux is an open source code and considered to have greater security than the commercial Windows environment. Balancing security. Ease of use and functionality can open vulnerabilities that already exist. Manufacturer settings, or default settings, may provide basic protection against hacking threats, but need to change to provide advance support. The unused features of application code provide an excellent opportunity to attack and cover the attack.

**15. What is the sequence of a TCP connection?**

- A. SYN-ACK-FIN
- B. SYN-SYN ACK-ACK
- C. SYN-ACK
- D. SYN-SYN-ACK

**Correct Answer – B**

**Explanation** – A three-handed connection of TCP will start with a SYN packet followed by a SYN-ACK packet. A final ACK packet will complete the connection.

**16. What tool can be used to perform SNMP enumeration?**

- A. DNSlookup
- B. Whois
- C. Nslookup
- D. IP Network Browser

**Correct Answer – D**

**Explanation** – SNMPPUtil and IP Network Browser is SNMP enumeration tool

**17. Which ports should be blocked to prevent null session enumeration?**

- A. Ports 120 and 445
- B. Ports 135 and 136
- C. Ports 110 and 137
- D. Ports 135 and 139

**Correct Answer – D**

**Explanation** – Port 139 is the NetBIOS Session port typically can provide large amounts of information using APIs to connect to the system. Other ports that can be blocked in 135, 137,138, and 445.

**18. The first phase of hacking an IT system is compromise of which foundation of security?**

- A. Availability
- B. Confidentiality
- C. Integrity
- D. Authentication

**Correct Answer – B**

**Explanation** – Reconnaissance is about gathering confidential information, such as usernames and passwords.

**19. How is IP address spoofing detected?**

- A. Installing and configuring a IDS that can read the IP header
- B. Comparing the TTL values of the actual and spoofed addresses
- C. Implementing a firewall to the network
- D. Identify all TCP sessions that are initiated but does not complete successfully

**Correct Answer – B**

**Explanation** – IP address spoofing is detectable by comparing TTL values of the actual and spoofed IP addresses

**20. Why would a ping sweep be used?**

- A. To identify live systems
- B. To locate live systems
- C. To identify open ports
- D. To locate firewalls

**Correct Answer – A**

**Explanation** – A ping sweep is intended to identify live systems. Once an active system is found on the network, other information may be distinguished, including location. Open ports and firewalls.

**21. What are the port states determined by Nmap?**

- A. Active, inactive, standby
- B. Open, half-open, closed
- C. Open, filtered, unfiltered
- D. Active, closed, unused

**Correct Answer – C**

**Explanation** – Nmap determines that ports are open, filtered, or unfiltered.

**22. What port does Telnet use?**

- A. 22
- B. 80
- C. 20
- D. 23

**Correct Answer – D**

**Explanation** – Telnet uses port 23.

**23. Which of the following will allow footprinting to be conducted without detection?**

- A. PingSweep
- B. Traceroute
- C. War Dialers
- D. ARIN

**Correct Answer – D**

**Explanation** – ARIN is a publicly accessible database, which has information that could be valuable. Because it is public, any attempt to obtain information in the database would go undetected.

**24. Performing hacking activities with the intent on gaining visibility for an unfair situation is called \_\_\_\_\_.**

- A. Cracking
- B. Analysis
- C. Hacktivism
- D. Exploitation

**Correct Answer – C**

**Explanation** – Hacktivism is the act of malicious hacking for a cause or purpose.

**25. What is the most important activity in system hacking?**

- A. Information gathering
- B. Cracking passwords
- C. Escalating privileges
- D. Covering tracks

**Correct Answer – B**

**Explanation** – Passwords are a key component to access a system, making cracking the password the most important part of system hacking.

**26. A packet with no flags set is which type of scan?**

- A. TCP
- B. XMAS
- C. IDLE
- D. NULL

**Correct Answer – D**

**Explanation** – A NULL scan has no flags set.

**27. Sniffing is used to perform \_\_\_\_\_ fingerprinting.**

- A. Passive stack
- B. Active stack
- C. Passive banner grabbing
- D. Scanned

**Correct Answer – A**

**Explanation** – Passive stack fingerprinting uses sniffing technologies instead of scanning.

**28. Phishing is a form of \_\_\_\_\_.**

- A. Spamming
- B. Identify Theft
- C. Impersonation
- D. Scanning

**Correct Answer – C**

**Explanation** – Phishing is typically a potential attacker posing, or impersonating, a financial institution

**29. Why would HTTP Tunneling be used?**

- A. To identify proxy servers
- B. Web activity is not scanned
- C. To bypass a firewall
- D. HTTP is a easy protocol to work with

**Correct Answer – C**

**Explanation** – HTTP Tunneling is used to bypass the IDS and firewalls present on a network.

**30. Which Nmap scan is does not completely open a TCP connection?**

- A. SYN stealth scan
- B. TCP connect
- C. XMAS tree scan
- D. ACK scan

**Correct Answer – A**

**Explanation** – Also known as a “half-open scanning,” SYN stealth scan will not complete a full TCP connection.

**31. What protocol is the Active Directory database based on?**

- A. LDAP
- B. TCP
- C. SQL
- D. HTTP

**Correct Answer – A**

**Explanation** – Active4 direction in Windows 200 is based on a Lightweight Directory Access Protocol (LDAP).

**32. Services running on a system are determined by \_\_\_\_\_.**

- A. The system’s IP address.
- B. The Active Directory
- C. The system’s network name
- D. The port assigned

**Correct Answer – D**

**Explanation** – Hackers can identify services running on a system by the open ports that are found.

**33. What are the types of scanning?**

- A. Port, network, and services
- B. Network, vulnerability, and port
- C. Passive, active, and interactive
- D. Server, client, and network

**Correct Answer – B**

**Explanation** – The three types of accepted scans are port, network, and vulnerability.

**34. Enumeration is part of what phase of ethical hacking?**

- A. Reconnaissance
- B. Maintaining Access
- C. Gaining Access
- D. Scanning

**Correct Answer – C**

**Explanation** – Enumeration is a process of gaining access to the network by obtaining information on a user or system to be used during an attack.

**35. Keyloggers are a form of \_\_\_\_\_.**

- A. Spyware
- B. Shoulder surfing
- C. Trojan
- D. Social engineering

**Correct Answer – A**

**Explanation** – Keyloggers are a form of hardware or software spyware installed between the keyboard and operating system.

**36. What are hybrid attacks?**

- A. An attempt to crack passwords using words that can be found in dictionary.
- B. An attempt to crack passwords by replacing characters of a dictionary word with numbers and symbols.
- C. An attempt to crack passwords using a combination of characters, numbers, and symbols.
- D. An attempt to crack passwords by replacing characters with numbers and symbols.

**Correct Answer – B**

**Explanation** – Hybrid attacks do crack passwords that are created with replaced characters of dictionary type words.

**37. Which form of encryption does WPA use?**

- A. Shared key
- B. LEAP
- C. TKIP
- D. AES

**Correct Answer – C**

**Explanation** – TKIP is used by WPA

**38. What is the best statement for taking advantage of a weakness in the security of an IT system?**

- A. Threat
- B. Attack
- C. Exploit
- D. Vulnerability

**Correct Answer – C**

**Explanation** – A weakness in security is exploited. An attack does the exploitation. A weakness is vulnerability. A threat is a potential vulnerability.

**39. Which database is queried by Whois?**

- A. ICANN
- B. ARIN
- C. APNIC
- D. DNS

**Correct Answer – A**

**Explanation** – Who utilizes the Internet Corporation for Assigned Names and Numbers.

**40. Having individuals provide personal information to obtain a free offer provided through the Internet is considered what type of social engineering?**

- A. Web-based
- B. Human-based
- C. User-based
- D. Computer-based

**Correct Answer – D**

**Explanation** – Whether using email, a fake website, or popup to entice the user, obtaining information from an individual over the Internet is a computer-based type of social engineering

**1) You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,**

$$A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$$

**Is the given matrix 'A', a valid key to be used for encryption?**

- a. Yes
- b. No
- c. Can't be determined
- d. Data insufficient

**Answer:** b) No

**Explanation:**

For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist. Here, in this case,

$$|A| = 0$$

Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the [Hill cipher](#).

**2) The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?**

- a. The input text is divided into two parts: one being left half and another one being right half.
- b. Swapping of the left and right halves are performed after each round.
- c. The plain text is converted into a matrix form first
- d. None of the above

**Answer:** c) The plain text is converted into a matrix form first

**Explanation:**

The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

**3) Among the following given options, chose the strongest encryption technique?**

- a. DES ( Data Encryption Standard)
- b. Double DES
- c. Triple DES
- d. AES (Advance Encryption Standard)

**Answer:** d) AES (Advance Encryption Standard)

**Explanation:**

It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

**4) What is the full-form of RSA in the RSA encryption technique?**

- a. Round Security Algorithm
- b. Rivest, Shamir, Adleman
- c. Robert, Shamir, Addie
- d. None of the above

**Answer:** b) Rivest, Shamir, Adleman

**Explanation:**

The RSA algorithm was named after the three scientists who developed this technique and the name RSA is itself the abbreviation of their names: Rivest, Shamir, and Adleman.

**5) Consider the following steps,**

- i. Substitution bytes
- ii. Shift Rows
- iii. Mix columns
- iv. Add round key

**The above steps are performed in each round of which of the following ciphers?**

- a. Rail fence cipher
- b. Data Encryption Standard (DES)
- c. Advance Encryption Standard (AES)
- d. None of the above

**Answer:** c) Advance Encryption Standard (AES)

**Explanation:**

Each round of AES includes the mentioned steps.

**1) What is the block size of plain text in SHA- 512 algorithm?**

- a. 512 bits
- b. 1024 bits
- c. 2048 bits

- d. None of the above

**Answer:** b. 1024 bits

**Explanation:**

The SHA- 512 algorithm uses blocks of plain text one at a time to encrypt them into ciphertext. The size of each block in the SHA- 512 algorithm is 1024 bits.

**2) All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?**

- i. Substitution bytes
- ii. Shift rows
- iii. Mix columns
- iv. Add round key

**Options**

- a. i.
- b. iii.
- c. All of the mentioned
- d. None of the mentioned

**Answer:** b. iii.

**Explanation:**

In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.

**3) What does IDEA stand for in the world of cryptography?**

**or**

**The IDEA word in the IDEA algorithm is the abbreviation for which of the following?**

- a. Independent Decryption Environment Analysis
- b. International Defense Encryption Area
- c. International Data Encryption Algorithm
- d. None of the above

**Answer:** c. International Data Encryption Algorithm

**Explanation:**

The IDEA Algorithm stands for "International Data Encryption Algorithm".

**4) How many sub-keys in the total are used by the IDEA for encrypting the plain text into ciphertext?**

- a. 64 sub- keys
- b. 48 sub- keys
- c. 52 sub- keys
- d. Only one key and no subkeys

**Answer:** c. 52 sub- keys

**Explanation:**

There are a total of 8 rounds in the IDEA technique for encryption and each of them uses 6 keys. Apart from that, 4 extra keys are used in the final round that is the output transformation round. This gives us a total of 52 subkeys.

$$(8 \times 6) + 4 = 52$$

**5) "The number of rounds in the AES algorithm depends upon the key size being used."**  
**Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?**

- a. 128 key size: 10 rounds
- b. 192 key size: 12 rounds
- c. 256 key size: 14 rounds
- d. All of the above

**Answer:** d. All of the above

**Explanation:**

All the mentioned options display the correct relation between the number of rounds and the key size used in the AES algorithm.

**6) Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?**

- a. Avalanche effect
- b. Completeness
- c. Both a. and b.
- d. None of the above

**Answer:** c. Both a. and b.

**Explanation:**

Avalanche effect and Completeness are the two characteristic properties of Block ciphers which differ them from stream ciphers.

**81. Public key encryption/decryption is not preferred because**

- a. it is slow

- b.** it is hardware/software intensive
- c.** it has a high computational load
- d.** all of the mentioned

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**Answer:** (d).all of the mentioned

- 82.** Which one of the following is not a public key distribution means?
- a.** Public-Key Certificates
  - b.** Hashing Certificates
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (b).Hashing Certificates

- 83.** What is the PGP stand for?
- a.** Permuted Gap Permission
  - b.** Permuted Great Privacy
  - c.** Pretty Good Permission
  - d.** None of the mentioned

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**Answer:** (d).None of the mentioned

- 84.** PGP makes use of which cryptographic algorithm?
- a.** DES
  - b.** AES

c. RSA

d. Rabin

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**Answer:** (c).RSA

**85.** USENET is related to which of the following Public Key distribution schemes?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (b).Public announcements

**86.** Which of the following public key distribution systems is most secure?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (a).Public-Key Certificates

**87.** Which systems use a timestamp?

i) Public-Key Certificates

ii) Public announcements

iii) Publicly available directories

iv) Public-Key authority

a. i) and ii)

- b.** iii) and iv)
- c.** i) and iv)
- d.** iv) only

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**Answer:** (c).i) and iv)

- 88.** Which of these systems use timestamps as an expiration date?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 89.** Which system uses a trusted third party interface?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 90.** Publicly Available directory is more secure than which other system?
- a.** Public-Key Certificates
  - b.** Public announcements

- c. Public-Key authority
- d. None of the mentioned

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**Answer:** (b).Public announcements

1. A method used by an IDS that involves checking for a pattern to identify unauthorized activity.*(No Answer)*
  - a. **CORRECT:** Pattern Matching
  - b. Session Splicing
  - c. Protocol Decoding
  - d. State Table
2. A list or table of stored by a router (or switch) that controls access to and from a network.*(No Answer)*
  - . State Table
    - a. **CORRECT:** Access Control List (ACL)
    - b. Session Splicing
    - c. Packet Filter
3. An analysis method used by some IDS that looks for instances that are not considered normal behavior.*(No Answer)*
  - . Stateful Inspection
    - a. **CORRECT:** Anomaly Detection
    - b. Evasion
    - c. Pattern Matching
4. Bypassing a device, or performing another action, to attack or place malware on a target network without being detected.*(No Answer)*
  - . Packet Filter
    - a. State Table
    - b. **CORRECT:** Evasion
    - c. Honeypot

5. A type of firewall closely related to a packet filter that can track the status of a connection through use of a state table that keeps track of connection activities.*(No Answer)*
  - . Anomaly Detection
    - a. Protocol Decoding
    - b. **CORRECT:** Stateful Inspection
    - c. State Table
6. A tool that uses the monitoring of network traffic, detection of unauthorized access attempts, and notification of unauthorized access attempts to network administrator.*(No Answer)*
  - . Anomaly Detection
    - a. Access Control List (ACL)
    - b. **CORRECT:** Intrusion Detection System (IDS)
    - c. Session Splicing
7. A type of stateless inspection used in some routers and firewalls to limit flow of traffic to what is on the ACL.*(No Answer)*
  - . **CORRECT:** Packet Filter
    - a. Proxy Server
    - b. Evasion
    - c. State Table
8. A way of looking at raw packet data.*(No Answer)*
  - . Proxy Server
    - a. Session Splicing
    - b. **CORRECT:** Protocol Decoding
    - c. Pattern Matching
9. A server (or application) that intercepts the requests clients make of another server, fills the requests that it can, and then forwards the requests it can't handle on to the other server thus helping to improve performance and security.*(No Answer)*
  - . Honeypot
    - a. **CORRECT:** Proxy Server
    - b. Packet Filter
    - c. State Table

10. A table in which data about connection activity is kept by a stateful firewall.(*No Answer*)
- . Evasion
    - a. **CORRECT:** State Table
    - b. Honeypot
    - c. Proxy Server
11. Something set up on a separate network (or in DMZ) to attract hackers and lure them away from the real network; it logs keystrokes, provides other information about an attacker, and also provides warning that someone is trying to attack your network.(*No Answer*)
- . Proxy Server
    - a. State Table
    - b. Evasion
    - c. **CORRECT:** Honeypot
12. A way to change network address information in IP packet headers with a router by connecting multiple computers using one IP address connected to the Internet (or IP network) to convert many private addresses into one public address.(*No Answer*)
- . Access Control List (ACL)
    - a. **CORRECT:** Network Address Translation (NAT)
    - b. Anomaly Detection
    - c. Intrusion Detection System (IDS)
13. A method of avoiding detection by an IDS by sending portions of a request in different packets.(*No Answer*)
- . **CORRECT:** Session Splicing
    - a. Protocol Decoding
    - b. Pattern Matching
    - c. Evasion

1.

What are drawbacks of the host based IDS ?

- A.) Unselective logging of messages may increase the audit burdens
- B.) Selective logging runs the risk of missed attacks
- C.) They are very fast to detect

- D.) They have to be programmed for new patterns

**Show Answer**

**Answer: Option 'A'**

**Unselective logging of messages may increase the audit burdens**

2.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

3.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

4.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

5.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider

- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

6.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

7.

What are characteristics of stack based IDS ?

- A.) They are integrated closely with the TCP/IP stack and watch packets
- B.) The host operating system logs in the audit information
- C.) It is programmed to interpret a certain series of packets
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They are integrated closely with the TCP/IP stack and watch packets**

8.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider
- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

9.

What are characteristics of Network based IDS ?

- A.) They look for attack signatures in network traffic
- B.) Filter decides which traffic will not be discarded or passed
- C.) It is programmed to interpret a certain series of packet
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They look for attack signatures in network traffic**

10.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

11.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

1. -systematic tracking of incoming and outgoing traffic: to ascertain how an attack was carried out or how an event occurred on a network.

-intruders and network users often leave trail behind

-identify locations where relevant digital evidence exists

-crucial when developing data map of digital evidence(*No Answer*)

- a. SIM Cards
  - b. Windows Registry
  - c. **CORRECT: Network Forensics**
  - d. Drive Slack
2. -personal digital assistant: can be separated devices from mobile phones
- PDA houses a microprocessor, ROM, RAM, disk drive and various components
- most common PDA, although not referred to as such:IPAD(*No Answer*)
- . Partition
    - a. SIM Cards
    - b. EEPROM
    - c. **CORRECT: PDA's**
3. -a logical drive(*No Answer*)
- . EEPROM
    - a. PDA's
    - b. SIM Cards
    - c. **CORRECT: Partition**
4. - .EVE -> .DFT -> IOLogErrors
- .DD -> .DFT -> IOLogErrors -> MD5(*No Answer*)
- . Additional SIM Card Purposes
    - a. Types of The Formats ProDiscover Creates
    - b. **CORRECT: Files Found When Acquisition is Done (ProDiscover)**
    - c. Mobile Forensics Equipment
5. -allows you to create a representation of another computer on an existing physical computer.
- a virtual machine is just a few files on your hard drive: must allocate space to it; dynamic or static
- a virtual machine recognizes components of the physical machine its on: virtual OS is limited by the physical machines O/S and RAM. (*No Answer*)

- . Partition
  - a. **CORRECT:** Virtual Machine
  - b. Drive Slack
  - c. SIM Cards
- 6. Considerations
  - determine the scope of the investigation.
  - determine what the case requires
  - whether you should collect all info
  - what to do in case of scope creep
- \*the key is to start with a plan but remain flexible in the face of new evidence(*No Answer*)
- . **CORRECT:** Examination Plan
  - a. Drive Slack
  - b. Partition
  - c. SIM Cards
- 7. Can be exported as:
  - RTF ~good for thumbnails and book marks
  - TEXT~plain text(*No Answer*)
- . Drive Slack
  - a. Write Blockers
  - b. Windows Registry
  - c. **CORRECT:** ProDiscover Report
- 8. -UNIX DD~most common raw image format
  - .EVE~has case metadata information(*No Answer*)
- . EnCase Output Formats
  - a. Five Major Categories
  - b. ProDiscover Report
  - c. **CORRECT:** Types of The Formats ProDiscover Creates
- 9. -electronically erasable programmable read-only memory
  - how phones store system data

-enables service providers to reprogram phones without having to physically access memory chips

-OS is stored in ROM: nonvolatile memory(*No Answer*)

- . Partition
  - a. file system
  - b. **CORRECT: EEPROM**
  - c. SIM Cards

10. -file manipulation: file names and extensions/ hidden property

-disk manipulation: hidden partitions/bad clusters

-encryption: bit shifting/stenography(*No Answer*)

- . Windows Registry
  - a. Examination Plan
  - b. Virtual Machine
  - c. **CORRECT: Data-hiding Techniques**

11. -gives us a road map to data on a disk

-type of file system an OS used determines how data is stored on the disk(*No Answer*)

- . **CORRECT: file system**
  - a. Drive Slack
  - b. EEPROM
  - c. SIM Cards

12. -the main concerns with mobile devices are loss of power and synchronization with PC's or the cloud (wired or wireless).

-all mobile devices have volatile memory that may contain valuable information: making sure they don't lose power before you can retrieve RAM data is critical.

-isolated the device from incoming signals with one of the following options: shielded container (paint can, enclosures), use the Faraday Bag, use eight layers of anti-static bags, aluminum foil.

-if device is not isolated, the data of the device will continue to change while in custody of the specialist.(*No Answer*)

- . Additional SIM Card Purposes
  - a. Network Forensics
  - b. **CORRECT:** Acquisition Procedures for Mobile Devices
  - c. Challenges With Mobile Devices

13. -acquisition~preservation~collection

-validation~discrimination~culling

~examination~extraction~review

~reconstruction~analysis

~reporting~presentation~production(*No Answer*)

- . Network Forensics
  - a. **CORRECT:** Five Major Categories
  - b. SIM Cards
  - c. Write Blockers

14. -a database that stores hardware and software configuration information, network connections, user preferences, and setup information.

-can contain valuable info about current/past applications and user created information(*No Answer*)

- . SIM Cards
  - a. **CORRECT:** Windows Registry
  - b. file system
  - c. Write Blockers

15. -unused space in a cluster between the end of an active file and the end of a cluster. (Includes RAM slack and file slack)(*No Answer*)

- . SIM Cards
  - a. file system

- b. Write Blockers
- c. **CORRECT:** Drive Slack

16. -subscribers identity module cards

-found most commonly in GSM devices

-microprocessor and from 16KB to 4MB EEPROM

-GSM refers to mobile phones as "mobile station" and divides a station into two parts: the sim card and the mobile equipment and common network in global networks

-portability of information makes SIM cards versatile(*No Answer*)

- . EEPROM
  - a. PDA's
  - b. **CORRECT:** SIM Cards
  - c. Drive Slack

17. -EnCase (E01)

-RAW (DD)

-SMART (S01)

-Sleuth Kit (AFF)(*No Answer*)

- . Five Major Categories
  - a. **CORRECT:** Different FTK Output Formats
  - b. EnCase Output Formats
  - c. Network Forensics

18. -How long a piece of information lasts on a system versus data that must be collected and preserved before its lost, corrupted, or backed up.

Order:

- 1-live network devices (switches/routers)
- 2-live computers/laptops (RAM and processes)
- 3-live other devices (smartphones, PDA's)

4-Devices/computers already OFF

5-Removable media/cables-adapters/documents(*No Answer*)

. **CORRECT:** Order of Volatility

- a. Partition
- b. Drive Slack
- c. Network Forensics

19. -devices are 'live' computers; traditional "stand-alone OFF computers" approach may be inadequate

-devices are connected to 'live' wireless networks; traditional "disconnect" or "segregate" approach network forensics may be inadequate

-devices lack hardware, software and operating system standardization; many variables affect forensic and eDiscovery techniques and analysis results.

-devices are dynamic in location; communications and operability; computers are mostly static.*(No Answer)*

. **CORRECT:** Challenges With Mobile Devices

- a. Write Blockers
- b. Network Forensics
- c. Acquisition Procedures for Mobile Devices

20. -analog

-digital personal communications service (PC's)

-third-generation (3G and 4G): increased bandwidth

\*continuing to evolve*(No Answer)*

. Data-hiding Techniques

- a. **CORRECT:** Three Generations of Mobile Phone Technology
- b. Order of Volatility
- c. Challenges With Mobile Devices

21. -identifies the subscriber to the network

-stores personal information

-stores address books and messages

-stores service-related information(*No Answer*)

- . Five Major Categories
  - a. ProDiscover Report
  - b. **CORRECT:** Additional SIM Card Purposes
  - c. SIM Cards

22. -hardware utilized for protecting source/hard drive from data alteration/tampering while collecting, preserving, and reviewing CSI.

-prevents operating systems and computer programs from making "writes" to the hard drive being acquired, examined, or analyzed.

-write blockers sits between the suspect/source drive and your analysis computer. (It is usually a hardware device, but software based write blockers may be utilized.*(No Answer)*

- . file system
  - a. Drive Slack
  - b. SIM Cards
  - c. **CORRECT:** Write Blockers

23. primary Windows based:

-EnCase

-Forensic Tool Kit (FTK)

-ProDiscover

-OSForensics

primarily Linux based:

-Sleuth Kit and Autopsy

-Helix

-Knoppix STD

-SMART(*No Answer*)

- . Computer Forensic and EDiscovery Tool Needs

- a. **CORRECT:** Computer Forensic Software Tools
  - b. Network Forensics
  - c. Mobile Forensics Equipment
24. -SIM card readers: a combination hardware/software device used to access the SIM card. You need to be in a forensic lab equip with appropriate anti-static devices.

-general forensic procedure for SIM cards:

- 1-remove the back panel of device
- 2-remove the battery
- 3-remove the SIM card
- 4-insert the SIM card into the card reader
- 5-extract relevant information

-a variety of SIM card readers are on the market: some are forensically sound and some are not

-documenting messages that haven't been read yet is critical: use a video camera to capture each screen, if data cannot be extracted with forensic hardware/software

-mobile forensic tools and utilities:

- Ramsey forensic text enclosure (hardware)
- SIM card reader (hardware)
- Paraben Device Seizure (software)
- BitPim (software)
- Susteen SecureView (software)
- EnCase and FTK (software)(*No Answer*)

- . file system
  - a. Network Forensics
  - b. **CORRECT:** Mobile Forensics Equipment
  - c. Computer Forensic Software Tools

25. -EX01

-E01 (Legacy)(*No Answer*)

- . **CORRECT:** EnCase Output Formats
  - a. Different FTK Output Formats
  - b. EEPROM

c. Network Forensics

26. look for versatility, flexibility, and robustness:

- Lab OS
- File System
- Automated Features
- Venders Reputation
- Acceptance by forensic community
- documented testing and validation

-Keep in mind what application files and operating system you'd be analyzing(*No Answer*)

. **CORRECT:** Computer Forensic and EDiscovery Tool Needs

- a. Mobile Forensics Equipment
- b. Types of The Formats ProDiscover Creates
- c. Computer Forensic Software Tools

## Question Bank for Information and Cyber Security (ICS)

### 1. Why would a hacker use a proxy server?

- A. To create a stronger connection with the target.
- B. To create a ghost server on the network.
- C. To obtain a remote access connection.
- D. To hide malicious activity on the network.

**Correct Answer – D**

**Explanation –** Proxy servers exist to act as an intermediary between the hacker and the target and services to keep the hacker anonymous to the network.

### 2. What type of symmetric key algorithm using a streaming cipher to encrypt information?

- A. RC4
- B. Blowfish
- C. SHA
- D. MD5

**Correct Answer – A**

**Explanation –** RC4 uses streaming ciphers.

### 3. Which of the following is not a factor in securing the environment against an attack on security?

- A. The education of the attacker
- B. The system configuration
- C. The network architecture
- D. The business strategy of the company
- E. The level of access provided to employees

**Correct Answer – D**

**Explanation –** All of the answers are factors supporting the exploitation or prevention of an attack. The business strategy may provide the motivation for a potential attack, but by itself will not influence the outcome.

### 4. What type of attack uses a fraudulent server with a relay address?

- A. NTLM
- B. MITM
- C. NetBIOS
- D. SMB

**Correct Answer – B**

**Explanation –** MITM (Man in the Middle) attacks create a server with a relay address. It is used in SMB relay attacks.

### 5. What port is used to connect to the Active Directory in Windows 2000?

- A. 80
- B. 445
- C. 139
- D. 389

**Correct Answer – D**

**Explanation –** The Active Directory Administration Tool used for a Windows 2000 LDAP client uses port 389 to connect to the Active Directory service.

### 6. To hide information inside a picture, what technology is used?

- A. Rootkits
- B. Bitmapping

- C. Steganography
- D. Image Rendering

**Correct Answer – C**

**Explanation** – Steganography is the right answer and can be used to hide information in pictures, music, or videos.

**7. Which phase of hacking performs actual attack on a network or system?**

- A. Reconnaissance
- B. Maintaining Access
- C. Scanning
- D. Gaining Access

**Correct Answer – D**

**Explanation** – In the process of hacking, actual attacks are performed when gaining access, or ownership, of the network or system. Reconnaissance and Scanning are information gathering steps to identify the best possible action for staging the attack. Maintaining access attempts to prolong the attack.

**8. Attempting to gain access to a network using an employee's credentials is called the \_\_\_\_\_ mode of ethical hacking.**

- A. Local networking
- B. Social engineering
- C. Physical entry
- D. Remote networking

**Correct Answer – A**

**Explanation** – Local networking uses an employee's credentials, or access rights, to gain access to the network. Physical entry uses credentials to gain access to the physical IT infrastructure.

**9. Which Federal Code applies the consequences of hacking activities that disrupt subway transit systems?**

- A. Electronic Communications Interception of Oral Communications
- B. 18 U.S.C. § 1029
- C. Cyber Security Enhancement Act 2002
- D. 18 U.S.C. § 1030

**Correct Answer – C**

**Explanation** – The Cyber Security Enhancement Act 2002 deals with life sentences for hackers who recklessly endanger the lives of others, specifically transportation systems.

**10. Which of the following is not a typical characteristic of an ethical hacker?**

- A. Excellent knowledge of Windows.
- B. Understands the process of exploiting network vulnerabilities.
- C. Patience, persistence and perseverance.
- D. Has the highest level of security for the organization.

**Correct Answer – D**

**Explanation** – Each answer has validity as a characteristic of an ethical hacker. Though having the highest security clearance is ideal, it is not always the case in an organization.

**11. What is the proper command to perform an Nmap XMAS scan every 15seconds?**

- A. nmap -sX -sneaky
- B. nmap -sX -paranoid
- C. nmap -sX -aggressive
- D. nmap -sX -polite

**Correct Answer – A**

**Explanation** – SX is used to identify a xmas scan, while sneaky performs scans 15 seconds apart.

**12. What type of rootkit will patch, hook, or replace the version of system call in order to hide information?**

- A. Library level rootkits
- B. Kernel level rootkits
- C. System level rootkits
- D. Application level rootkits

**Correct Answer – A**

**Explanation** – Library leve rootkits is the correct answer. Kerel level focuses on replaceing specific code while application level will concentrate on modifying the behavior of the application or replacing application binaries. The type, system level, does not exist for rootkits.

**13. What is the purpose of a Denial of Service attack?**

- A. Exploit a weakness in the TCP/IP stack
- B. To execute a Trojan on a system
- C. To overload a system so it is no longer operational
- D. To shutdown services by turning them off

**Correct Answer – C**

**Explanation** – DoS attacks force systems to stop responding by overloading the processing of the system.

**14. What are some of the most common vulnerabilities that exist in a network or system?**

- A. Changing manufacturer, or recommended, settings of a newly installed application.
- B. Additional unused features on commercial software packages.
- C. Utilizing open source application code
- D. Balancing security concerns with functionality and ease of use of a system.

**Correct Answer – B**

**Explanation** – Linux is an open source code and considered to have greater security than the commercial Windows environment. Balancing security. Ease of use and functionality can open vulnerabilities that already exist. Manufacturer settings, or default settings, may provide basic protection against hacking threats, but need to change to provide advance support. The unused features of application code provide an excellent opportunity to attack and cover the attack.

**15. What is the sequence of a TCP connection?**

- A. SYN-ACK-FIN
- B. SYN-SYN ACK-ACK
- C. SYN-ACK
- D. SYN-SYN-ACK

**Correct Answer – B**

**Explanation** – A three-handed connection of TCP will start with a SYN packet followed by a SYN-ACK packet. A final ACK packet will complete the connection.

**16. What tool can be used to perform SNMP enumeration?**

- A. DNSlookup
- B. Whois
- C. Nslookup
- D. IP Network Browser

**Correct Answer – D**

**Explanation** – SNMPPUtil and IP Network Browser is SNMP enumeration tool

**17. Which ports should be blocked to prevent null session enumeration?**

- A. Ports 120 and 445
- B. Ports 135 and 136
- C. Ports 110 and 137
- D. Ports 135 and 139

**Correct Answer – D**

**Explanation** – Port 139 is the NetBIOS Session port typically can provide large amounts of information using APIs to connect to the system. Other ports that can be blocked in 135, 137,138, and 445.

**18. The first phase of hacking an IT system is compromise of which foundation of security?**

- A. Availability
- B. Confidentiality
- C. Integrity
- D. Authentication

**Correct Answer – B**

**Explanation** – Reconnaissance is about gathering confidential information, such as usernames and passwords.

**19. How is IP address spoofing detected?**

- A. Installing and configuring a IDS that can read the IP header
- B. Comparing the TTL values of the actual and spoofed addresses
- C. Implementing a firewall to the network
- D. Identify all TCP sessions that are initiated but does not complete successfully

**Correct Answer – B**

**Explanation** – IP address spoofing is detectable by comparing TTL values of the actual and spoofed IP addresses

**20. Why would a ping sweep be used?**

- A. To identify live systems
- B. To locate live systems
- C. To identify open ports
- D. To locate firewalls

**Correct Answer – A**

**Explanation** – A ping sweep is intended to identify live systems. Once an active system is found on the network, other information may be distinguished, including location. Open ports and firewalls.

**21. What are the port states determined by Nmap?**

- A. Active, inactive, standby
- B. Open, half-open, closed
- C. Open, filtered, unfiltered
- D. Active, closed, unused

**Correct Answer – C**

**Explanation** – Nmap determines that ports are open, filtered, or unfiltered.

**22. What port does Telnet use?**

- A. 22
- B. 80
- C. 20
- D. 23

**Correct Answer – D**

**Explanation** – Telnet uses port 23.

**23. Which of the following will allow footprinting to be conducted without detection?**

- A. PingSweep
- B. Traceroute
- C. War Dialers
- D. ARIN

**Correct Answer – D**

**Explanation** – ARIN is a publicly accessible database, which has information that could be valuable. Because it is public, any attempt to obtain information in the database would go undetected.

**24. Performing hacking activities with the intent on gaining visibility for an unfair situation is called \_\_\_\_\_.**

- A. Cracking
- B. Analysis
- C. Hacktivism
- D. Exploitation

**Correct Answer – C**

**Explanation** – Hacktivism is the act of malicious hacking for a cause or purpose.

**25. What is the most important activity in system hacking?**

- A. Information gathering
- B. Cracking passwords
- C. Escalating privileges
- D. Covering tracks

**Correct Answer – B**

**Explanation** – Passwords are a key component to access a system, making cracking the password the most important part of system hacking.

**26. A packet with no flags set is which type of scan?**

- A. TCP
- B. XMAS
- C. IDLE
- D. NULL

**Correct Answer – D**

**Explanation** – A NULL scan has no flags set.

**27. Sniffing is used to perform \_\_\_\_\_ fingerprinting.**

- A. Passive stack
- B. Active stack
- C. Passive banner grabbing
- D. Scanned

**Correct Answer – A**

**Explanation** – Passive stack fingerprinting uses sniffing technologies instead of scanning.

**28. Phishing is a form of \_\_\_\_\_.**

- A. Spamming
- B. Identify Theft
- C. Impersonation
- D. Scanning

**Correct Answer – C**

**Explanation** – Phishing is typically a potential attacker posing, or impersonating, a financial institution

**29. Why would HTTP Tunneling be used?**

- A. To identify proxy servers
- B. Web activity is not scanned
- C. To bypass a firewall
- D. HTTP is a easy protocol to work with

**Correct Answer – C**

**Explanation** – HTTP Tunneling is used to bypass the IDS and firewalls present on a network.

**30. Which Nmap scan is does not completely open a TCP connection?**

- A. SYN stealth scan
- B. TCP connect
- C. XMAS tree scan
- D. ACK scan

**Correct Answer – A**

**Explanation** – Also known as a “half-open scanning,” SYN stealth scan will not complete a full TCP connection.

**31. What protocol is the Active Directory database based on?**

- A. LDAP
- B. TCP
- C. SQL
- D. HTTP

**Correct Answer – A**

**Explanation** – Active4 direction in Windows 200 is based on a Lightweight Directory Access Protocol (LDAP).

**32. Services running on a system are determined by \_\_\_\_\_.**

- A. The system’s IP address.
- B. The Active Directory
- C. The system’s network name
- D. The port assigned

**Correct Answer – D**

**Explanation** – Hackers can identify services running on a system by the open ports that are found.

**33. What are the types of scanning?**

- A. Port, network, and services
- B. Network, vulnerability, and port
- C. Passive, active, and interactive
- D. Server, client, and network

**Correct Answer – B**

**Explanation** – The three types of accepted scans are port, network, and vulnerability.

**34. Enumeration is part of what phase of ethical hacking?**

- A. Reconnaissance
- B. Maintaining Access
- C. Gaining Access
- D. Scanning

**Correct Answer – C**

**Explanation** – Enumeration is a process of gaining access to the network by obtaining information on a user or system to be used during an attack.

**35. Keyloggers are a form of \_\_\_\_\_.**

- A. Spyware
- B. Shoulder surfing
- C. Trojan
- D. Social engineering

**Correct Answer – A**

**Explanation** – Keyloggers are a form of hardware or software spyware installed between the keyboard and operating system.

**36. What are hybrid attacks?**

- A. An attempt to crack passwords using words that can be found in dictionary.
- B. An attempt to crack passwords by replacing characters of a dictionary word with numbers and symbols.
- C. An attempt to crack passwords using a combination of characters, numbers, and symbols.
- D. An attempt to crack passwords by replacing characters with numbers and symbols.

**Correct Answer – B**

**Explanation** – Hybrid attacks do crack passwords that are created with replaced characters of dictionary type words.

**37. Which form of encryption does WPA use?**

- A. Shared key
- B. LEAP
- C. TKIP
- D. AES

**Correct Answer – C**

**Explanation** – TKIP is used by WPA

**38. What is the best statement for taking advantage of a weakness in the security of an IT system?**

- A. Threat
- B. Attack
- C. Exploit
- D. Vulnerability

**Correct Answer – C**

**Explanation** – A weakness in security is exploited. An attack does the exploitation. A weakness is vulnerability. A threat is a potential vulnerability.

**39. Which database is queried by Whois?**

- A. ICANN
- B. ARIN
- C. APNIC
- D. DNS

**Correct Answer – A**

**Explanation** – Who utilizes the Internet Corporation for Assigned Names and Numbers.

**40. Having individuals provide personal information to obtain a free offer provided through the Internet is considered what type of social engineering?**

- A. Web-based
- B. Human-based
- C. User-based
- D. Computer-based

**Correct Answer – D**

**Explanation** – Whether using email, a fake website, or popup to entice the user, obtaining information from an individual over the Internet is a computer-based type of social engineering

**1) You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,**

$$A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$$

**Is the given matrix 'A', a valid key to be used for encryption?**

- a. Yes
- b. No
- c. Can't be determined
- d. Data insufficient

**Answer:** b) No

**Explanation:**

For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist. Here, in this case,

$$|A| = 0$$

Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the [Hill cipher](#).

**2) The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?**

- a. The input text is divided into two parts: one being left half and another one being right half.
- b. Swapping of the left and right halves are performed after each round.
- c. The plain text is converted into a matrix form first
- d. None of the above

**Answer:** c) The plain text is converted into a matrix form first

**Explanation:**

The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

**3) Among the following given options, chose the strongest encryption technique?**

- a. DES ( Data Encryption Standard)
- b. Double DES
- c. Triple DES
- d. AES (Advance Encryption Standard)

**Answer:** d) AES (Advance Encryption Standard)

**Explanation:**

It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

**4) What is the full-form of RSA in the RSA encryption technique?**

- a. Round Security Algorithm
- b. Rivest, Shamir, Adleman
- c. Robert, Shamir, Addie
- d. None of the above

**Answer:** b) Rivest, Shamir, Adleman

**Explanation:**

The RSA algorithm was named after the three scientists who developed this technique and the name RSA is itself the abbreviation of their names: Rivest, Shamir, and Adleman.

**5) Consider the following steps,**

- i. Substitution bytes
- ii. Shift Rows
- iii. Mix columns
- iv. Add round key

**The above steps are performed in each round of which of the following ciphers?**

- a. Rail fence cipher
- b. Data Encryption Standard (DES)
- c. Advance Encryption Standard (AES)
- d. None of the above

**Answer:** c) Advance Encryption Standard (AES)

**Explanation:**

Each round of AES includes the mentioned steps.

**1) What is the block size of plain text in SHA- 512 algorithm?**

- a. 512 bits
- b. 1024 bits
- c. 2048 bits

- d. None of the above

**Answer:** b. 1024 bits

**Explanation:**

The SHA- 512 algorithm uses blocks of plain text one at a time to encrypt them into ciphertext. The size of each block in the SHA- 512 algorithm is 1024 bits.

**2) All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?**

- i. Substitution bytes
- ii. Shift rows
- iii. Mix columns
- iv. Add round key

**Options**

- a. i.
- b. iii.
- c. All of the mentioned
- d. None of the mentioned

**Answer:** b. iii.

**Explanation:**

In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.

**3) What does IDEA stand for in the world of cryptography?**

**or**

**The IDEA word in the IDEA algorithm is the abbreviation for which of the following?**

- a. Independent Decryption Environment Analysis
- b. International Defense Encryption Area
- c. International Data Encryption Algorithm
- d. None of the above

**Answer:** c. International Data Encryption Algorithm

**Explanation:**

The IDEA Algorithm stands for "International Data Encryption Algorithm".

**4) How many sub-keys in the total are used by the IDEA for encrypting the plain text into ciphertext?**

- a. 64 sub- keys
- b. 48 sub- keys
- c. 52 sub- keys
- d. Only one key and no subkeys

**Answer:** c. 52 sub- keys

**Explanation:**

There are a total of 8 rounds in the IDEA technique for encryption and each of them uses 6 keys. Apart from that, 4 extra keys are used in the final round that is the output transformation round. This gives us a total of 52 subkeys.

$$(8 \times 6) + 4 = 52$$

**5) "The number of rounds in the AES algorithm depends upon the key size being used."**  
**Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?**

- a. 128 key size: 10 rounds
- b. 192 key size: 12 rounds
- c. 256 key size: 14 rounds
- d. All of the above

**Answer:** d. All of the above

**Explanation:**

All the mentioned options display the correct relation between the number of rounds and the key size used in the AES algorithm.

**6) Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?**

- a. Avalanche effect
- b. Completeness
- c. Both a. and b.
- d. None of the above

**Answer:** c. Both a. and b.

**Explanation:**

Avalanche effect and Completeness are the two characteristic properties of Block ciphers which differ them from stream ciphers.

**81. Public key encryption/decryption is not preferred because**

- a. it is slow

- b.** it is hardware/software intensive
- c.** it has a high computational load
- d.** all of the mentioned

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**Answer:** (d).all of the mentioned

- 82.** Which one of the following is not a public key distribution means?
- a.** Public-Key Certificates
  - b.** Hashing Certificates
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (b).Hashing Certificates

- 83.** What is the PGP stand for?
- a.** Permuted Gap Permission
  - b.** Permuted Great Privacy
  - c.** Pretty Good Permission
  - d.** None of the mentioned

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**Answer:** (d).None of the mentioned

- 84.** PGP makes use of which cryptographic algorithm?
- a.** DES
  - b.** AES

c. RSA

d. Rabin

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**Answer:** (c).RSA

**85.** USENET is related to which of the following Public Key distribution schemes?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (b).Public announcements

**86.** Which of the following public key distribution systems is most secure?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (a).Public-Key Certificates

**87.** Which systems use a timestamp?

i) Public-Key Certificates

ii) Public announcements

iii) Publicly available directories

iv) Public-Key authority

a. i) and ii)

- b.** iii) and iv)
- c.** i) and iv)
- d.** iv) only

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**Answer:** (c).i) and iv)

- 88.** Which of these systems use timestamps as an expiration date?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 89.** Which system uses a trusted third party interface?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 90.** Publicly Available directory is more secure than which other system?
- a.** Public-Key Certificates
  - b.** Public announcements

- c. Public-Key authority
- d. None of the mentioned

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**Answer:** (b).Public announcements

1. A method used by an IDS that involves checking for a pattern to identify unauthorized activity.*(No Answer)*
  - a. **CORRECT:** Pattern Matching
  - b. Session Splicing
  - c. Protocol Decoding
  - d. State Table
2. A list or table of stored by a router (or switch) that controls access to and from a network.*(No Answer)*
  - . State Table
    - a. **CORRECT:** Access Control List (ACL)
    - b. Session Splicing
    - c. Packet Filter
3. An analysis method used by some IDS that looks for instances that are not considered normal behavior.*(No Answer)*
  - . Stateful Inspection
    - a. **CORRECT:** Anomaly Detection
    - b. Evasion
    - c. Pattern Matching
4. Bypassing a device, or performing another action, to attack or place malware on a target network without being detected.*(No Answer)*
  - . Packet Filter
    - a. State Table
    - b. **CORRECT:** Evasion
    - c. Honeypot

5. A type of firewall closely related to a packet filter that can track the status of a connection through use of a state table that keeps track of connection activities.(*No Answer*)
  - . Anomaly Detection
    - a. Protocol Decoding
    - b. **CORRECT:** Stateful Inspection
    - c. State Table
6. A tool that uses the monitoring of network traffic, detection of unauthorized access attempts, and notification of unauthorized access attempts to network administrator.(*No Answer*)
  - . Anomaly Detection
    - a. Access Control List (ACL)
    - b. **CORRECT:** Intrusion Detection System (IDS)
    - c. Session Splicing
7. A type of stateless inspection used in some routers and firewalls to limit flow of traffic to what is on the ACL.(*No Answer*)
  - . **CORRECT:** Packet Filter
    - a. Proxy Server
    - b. Evasion
    - c. State Table
8. A way of looking at raw packet data.(*No Answer*)
  - . Proxy Server
    - a. Session Splicing
    - b. **CORRECT:** Protocol Decoding
    - c. Pattern Matching
9. A server (or application) that intercepts the requests clients make of another server, fills the requests that it can, and then forwards the requests it can't handle on to the other server thus helping to improve performance and security.(*No Answer*)
  - . Honeypot
    - a. **CORRECT:** Proxy Server
    - b. Packet Filter
    - c. State Table

10. A table in which data about connection activity is kept by a stateful firewall.(*No Answer*)
- . Evasion
    - a. **CORRECT:** State Table
    - b. Honeypot
    - c. Proxy Server
11. Something set up on a separate network (or in DMZ) to attract hackers and lure them away from the real network; it logs keystrokes, provides other information about an attacker, and also provides warning that someone is trying to attack your network.(*No Answer*)
- . Proxy Server
    - a. State Table
    - b. Evasion
    - c. **CORRECT:** Honeypot
12. A way to change network address information in IP packet headers with a router by connecting multiple computers using one IP address connected to the Internet (or IP network) to convert many private addresses into one public address.(*No Answer*)
- . Access Control List (ACL)
    - a. **CORRECT:** Network Address Translation (NAT)
    - b. Anomaly Detection
    - c. Intrusion Detection System (IDS)
13. A method of avoiding detection by an IDS by sending portions of a request in different packets.(*No Answer*)
- . **CORRECT:** Session Splicing
    - a. Protocol Decoding
    - b. Pattern Matching
    - c. Evasion

1.

What are drawbacks of the host based IDS ?

- A.) Unselective logging of messages may increase the audit burdens
- B.) Selective logging runs the risk of missed attacks
- C.) They are very fast to detect

- D.) They have to be programmed for new patterns

**Show Answer**

**Answer: Option 'A'**

**Unselective logging of messages may increase the audit burdens**

2.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

3.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

4.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

5.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider

- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

6.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

7.

What are characteristics of stack based IDS ?

- A.) They are integrated closely with the TCP/IP stack and watch packets
- B.) The host operating system logs in the audit information
- C.) It is programmed to interpret a certain series of packets
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They are integrated closely with the TCP/IP stack and watch packets**

8.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider
- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

9.

What are characteristics of Network based IDS ?

- A.) They look for attack signatures in network traffic
- B.) Filter decides which traffic will not be discarded or passed
- C.) It is programmed to interpret a certain series of packet
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They look for attack signatures in network traffic**

10.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

11.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

1. -systematic tracking of incoming and outgoing traffic: to ascertain how an attack was carried out or how an event occurred on a network.

-intruders and network users often leave trail behind

-identify locations where relevant digital evidence exists

-crucial when developing data map of digital evidence(*No Answer*)

- a. SIM Cards
  - b. Windows Registry
  - c. **CORRECT: Network Forensics**
  - d. Drive Slack
2. -personal digital assistant: can be separated devices from mobile phones
- PDA houses a microprocessor, ROM, RAM, disk drive and various components
- most common PDA, although not referred to as such:IPAD(*No Answer*)
- . Partition
    - a. SIM Cards
    - b. EEPROM
    - c. **CORRECT: PDA's**
3. -a logical drive(*No Answer*)
- . EEPROM
    - a. PDA's
    - b. SIM Cards
    - c. **CORRECT: Partition**
4. - .EVE -> .DFT -> IOLogErrors
- .DD -> .DFT -> IOLogErrors -> MD5(*No Answer*)
- . Additional SIM Card Purposes
    - a. Types of The Formats ProDiscover Creates
    - b. **CORRECT: Files Found When Acquisition is Done (ProDiscover)**
    - c. Mobile Forensics Equipment
5. -allows you to create a representation of another computer on an existing physical computer.
- a virtual machine is just a few files on your hard drive: must allocate space to it; dynamic or static
- a virtual machine recognizes components of the physical machine its on: virtual OS is limited by the physical machines O/S and RAM. (*No Answer*)

- . Partition
  - a. **CORRECT:** Virtual Machine
  - b. Drive Slack
  - c. SIM Cards
- 6. Considerations
  - determine the scope of the investigation.
  - determine what the case requires
  - whether you should collect all info
  - what to do in case of scope creep
- \*the key is to start with a plan but remain flexible in the face of new evidence(*No Answer*)
- . **CORRECT:** Examination Plan
  - a. Drive Slack
  - b. Partition
  - c. SIM Cards
- 7. Can be exported as:
  - RTF ~good for thumbnails and book marks
  - TEXT~plain text(*No Answer*)
- . Drive Slack
  - a. Write Blockers
  - b. Windows Registry
  - c. **CORRECT:** ProDiscover Report
- 8. -UNIX DD~most common raw image format
  - .EVE~has case metadata information(*No Answer*)
- . EnCase Output Formats
  - a. Five Major Categories
  - b. ProDiscover Report
  - c. **CORRECT:** Types of The Formats ProDiscover Creates
- 9. -electronically erasable programmable read-only memory
  - how phones store system data

-enables service providers to reprogram phones without having to physically access memory chips

-OS is stored in ROM: nonvolatile memory(*No Answer*)

- . Partition
  - a. file system
  - b. **CORRECT: EEPROM**
  - c. SIM Cards

10. -file manipulation: file names and extensions/ hidden property

-disk manipulation: hidden partitions/bad clusters

-encryption: bit shifting/stenography(*No Answer*)

- . Windows Registry
  - a. Examination Plan
  - b. Virtual Machine
  - c. **CORRECT: Data-hiding Techniques**

11. -gives us a road map to data on a disk

-type of file system an OS used determines how data is stored on the disk(*No Answer*)

- . **CORRECT: file system**
  - a. Drive Slack
  - b. EEPROM
  - c. SIM Cards

12. -the main concerns with mobile devices are loss of power and synchronization with PC's or the cloud (wired or wireless).

-all mobile devices have volatile memory that may contain valuable information: making sure they don't lose power before you can retrieve RAM data is critical.

-isolated the device from incoming signals with one of the following options: shielded container (paint can, enclosures), use the Faraday Bag, use eight layers of anti-static bags, aluminum foil.

-if device is not isolated, the data of the device will continue to change while in custody of the specialist.(*No Answer*)

- . Additional SIM Card Purposes
  - a. Network Forensics
  - b. **CORRECT:** Acquisition Procedures for Mobile Devices
  - c. Challenges With Mobile Devices

13. -acquisition~preservation~collection

-validation~discrimination~culling

~examination~extraction~review

~reconstruction~analysis

~reporting~presentation~production(*No Answer*)

- . Network Forensics
  - a. **CORRECT:** Five Major Categories
  - b. SIM Cards
  - c. Write Blockers

14. -a database that stores hardware and software configuration information, network connections, user preferences, and setup information.

-can contain valuable info about current/past applications and user created information(*No Answer*)

- . SIM Cards
  - a. **CORRECT:** Windows Registry
  - b. file system
  - c. Write Blockers

15. -unused space in a cluster between the end of an active file and the end of a cluster. (Includes RAM slack and file slack)(*No Answer*)

- . SIM Cards
  - a. file system

- b. Write Blockers
- c. **CORRECT: Drive Slack**

16. -subscribers identity module cards

-found most commonly in GSM devices

-microprocessor and from 16KB to 4MB EEPROM

-GSM refers to mobile phones as "mobile station" and divides a station into two parts: the sim card and the mobile equipment and common network in global networks

-portability of information makes SIM cards versatile(*No Answer*)

- . EEPROM
  - a. PDA's
  - b. **CORRECT: SIM Cards**
  - c. Drive Slack

17. -EnCase (E01)

-RAW (DD)

-SMART (S01)

-Sleuth Kit (AFF)(*No Answer*)

- . Five Major Categories
  - a. **CORRECT: Different FTK Output Formats**
  - b. EnCase Output Formats
  - c. Network Forensics

18. -How long a piece of information lasts on a system versus data that must be collected and preserved before its lost, corrupted, or backed up.

Order:

- 1-live network devices (switches/routers)
- 2-live computers/laptops (RAM and processes)
- 3-live other devices (smartphones, PDA's)

4-Devices/computers already OFF

5-Removable media/cables-adapters/documents(*No Answer*)

. **CORRECT:** Order of Volatility

- a. Partition
- b. Drive Slack
- c. Network Forensics

19. -devices are 'live' computers; traditional "stand-alone OFF computers" approach may be inadequate

-devices are connected to 'live' wireless networks; traditional "disconnect" or "segregate" approach network forensics may be inadequate

-devices lack hardware, software and operating system standardization; many variables affect forensic and eDiscovery techniques and analysis results.

-devices are dynamic in location; communications and operability; computers are mostly static.*(No Answer)*

. **CORRECT:** Challenges With Mobile Devices

- a. Write Blockers
- b. Network Forensics
- c. Acquisition Procedures for Mobile Devices

20. -analog

-digital personal communications service (PC's)

-third-generation (3G and 4G): increased bandwidth

\*continuing to evolve*(No Answer)*

. Data-hiding Techniques

- a. **CORRECT:** Three Generations of Mobile Phone Technology
- b. Order of Volatility
- c. Challenges With Mobile Devices

21. -identifies the subscriber to the network

-stores personal information

-stores address books and messages

-stores service-related information(*No Answer*)

- . Five Major Categories
  - a. ProDiscover Report
  - b. **CORRECT:** Additional SIM Card Purposes
  - c. SIM Cards

22. -hardware utilized for protecting source/hard drive from data alteration/tampering while collecting, preserving, and reviewing CSI.

-prevents operating systems and computer programs from making "writes" to the hard drive being acquired, examined, or analyzed.

-write blockers sits between the suspect/source drive and your analysis computer. (It is usually a hardware device, but software based write blockers may be utilized.*(No Answer)*

- . file system
  - a. Drive Slack
  - b. SIM Cards
  - c. **CORRECT:** Write Blockers

23. primary Windows based:

-EnCase

-Forensic Tool Kit (FTK)

-ProDiscover

-OSForensics

primarily Linux based:

-Sleuth Kit and Autopsy

-Helix

-Knoppix STD

-SMART(*No Answer*)

- . Computer Forensic and EDiscovery Tool Needs

- a. **CORRECT:** Computer Forensic Software Tools
  - b. Network Forensics
  - c. Mobile Forensics Equipment
24. -SIM card readers: a combination hardware/software device used to access the SIM card. You need to be in a forensic lab equip with appropriate anti-static devices.

-general forensic procedure for SIM cards:

- 1-remove the back panel of device
- 2-remove the battery
- 3-remove the SIM card
- 4-insert the SIM card into the card reader
- 5-extract relevant information

-a variety of SIM card readers are on the market: some are forensically sound and some are not

-documenting messages that haven't been read yet is critical: use a video camera to capture each screen, if data cannot be extracted with forensic hardware/software

-mobile forensic tools and utilities:

- Ramsey forensic text enclosure (hardware)
- SIM card reader (hardware)
- Paraben Device Seizure (software)
- BitPim (software)
- Susteen SecureView (software)
- EnCase and FTK (software)(*No Answer*)

- . file system
  - a. Network Forensics
  - b. **CORRECT:** Mobile Forensics Equipment
  - c. Computer Forensic Software Tools

25. -EX01

-E01 (Legacy)(*No Answer*)

- . **CORRECT:** EnCase Output Formats
  - a. Different FTK Output Formats
  - b. EEPROM

c. Network Forensics

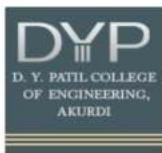
26. look for versatility, flexibility, and robustness:

- Lab OS
- File System
- Automated Features
- Venders Reputation
- Acceptance by forensic community
- documented testing and validation

-Keep in mind what application files and operating system you'd be analyzing(*No Answer*)

. **CORRECT:** Computer Forensic and EDiscovery Tool Needs

- a. Mobile Forensics Equipment
- b. Types of The Formats ProDiscover Creates
- c. Computer Forensic Software Tools



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**DEPARTMENT OF COMPUTER ENGINEERING**

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Academic Year (2019-20) Sem-II  
[QUESTION BANK]

Subject: ICS

Class: BE A&B

Date: 20/04/2020

**UNIT I**  
**SECURITY BASICS**

1. Lack of access control policy is a \_\_\_\_\_

- a) Bug
- b) Threat
- c) Vulnerability
- d) Attack

Answer: C

2. Compromising confidential information comes under \_\_\_\_\_

- a) Bug
- b) Threat
- c) Vulnerability
- d) Attack

Answer: b

3. From the options below, which of them is not a vulnerability to information security?

- a) flood
- b) without deleting data, disposal of storage media
- c) unchanged default password
- d) latest patches and updates not done

Answer: a

4. \_\_\_\_\_ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.

- a) Network Security
- b) Database Security
- c) Information Security
- d) Physical Security

Answer: c

5. The full form of Malware is \_\_\_\_\_

- a) Malfunctioned Software
- b) Multipurpose Software
- c) Malicious Software
- d) Malfunctioning of Security

Answer: c

6. An attempt to harm, damage or cause threat to a system or network is broadly termed as \_\_\_\_\_

- a) Cyber-crime
- b) Cyber Attack
- c) System hijacking
- d) Digital crime

Answer: b

7. According to the CIA Triad, which of the below-mentioned element is not considered in the triad?

- a) Confidentiality
- b) Integrity
- c) Authenticity
- d) Availability

Answer: c

8. CIA triad is also known as \_\_\_\_\_

- a) NIC (Non-repudiation, Integrity, Confidentiality)
- b) AIC (Availability, Integrity, Confidentiality)
- c) AIN (Availability, Integrity, Non-repudiation)
- d) AIC (Authenticity, Integrity, Confidentiality)

Answer: b

9. \_\_\_\_\_ means the protection of data from modification by unknown users.

- a) Confidentiality
- b) Integrity
- c) Authentication
- d) Non-repudiation

Answer: b

10. When you use the word \_\_\_\_\_ it means you are protecting your data from getting disclosed.

- a) Confidentiality
- b) Integrity
- c) Authentication
- d) Availability

Answer: a

11. \_\_\_\_\_ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.

- a) Network Security
- b) Database Security
- c) Information Security
- d) Physical Security

Answer: c

12. From the options below, which of them is not a threat to information security?

- a) Disaster
- b) Eavesdropping
- c) Information leakage
- d) Unchanged default password

Answer: d

13. From the options below, which of them is not a vulnerability to information security?

- a) flood
- b) without deleting data, disposal of storage media
- c) unchanged default password
- d) latest patches and updates not done

Answer: a

14. \_\_\_\_\_ platforms are used for safety and protection of information in the cloud.

- a) Cloud workload protection platforms
- b) Cloud security protocols
- c) AWS
- d) One Drive

Answer: a

15. Which of the following information security technology is used for avoiding browser-based hacking?

- a) Anti-malware in browsers
- b) Remote browser access
- c) Adware remover in browsers
- d) Incognito mode in a browser

Answer: b

16. The full form of EDR is \_\_\_\_\_

- a) Endpoint Detection and recovery
- b) Early detection and response
- c) Endpoint Detection and response
- d) Endless Detection and Recovery

Answer: c

17. \_\_\_\_\_ technology is used for analysing and monitoring traffic in network and information flow.

- a) Cloud access security brokers (CASBs)
- b) Managed detection and response (MDR)
- c) Network Security Firewall
- d) Network traffic analysis (NTA)

Answer: d

18. Compromising confidential information comes under \_\_\_\_\_

- a) Bug

- b) Threat
- c) Vulnerability
- d) Attack

Answer: b

19. Lack of access control policy is a \_\_\_\_\_

- a) Bug
- b) Threat
- c) Vulnerability
- d) Attack

Answer: c

20. Possible threat to any information cannot be \_\_\_\_\_

- a) reduced
- b) transferred
- c) protected
- d) ignored

Answer: d

21. In general how many key elements constitute the entire security structure?

- a) 1
- b) 2
- c) 3
- d) 4

Answer: d

22. According to the CIA Triad, which of the below-mentioned element is not considered in the triad?

- a) Confidentiality
- b) Integrity
- c) Authenticity
- d) Availability

Answer: c

23. This is the model designed for guiding the policies of Information security within a company, firm or organization. What is “this” referred to here?

- a) Confidentiality
- b) Non-repudiation
- c) CIA Triad
- d) Authenticity

Answer: c

24. CIA triad is also known as \_\_\_\_\_

- a) NIC (Non-repudiation, Integrity, Confidentiality)
- b) AIC (Availability, Integrity, Confidentiality)
- c) AIN (Availability, Integrity, Non-repudiation)

d) AIC (Authenticity, Integrity, Confidentiality)

Answer: b

25. When you use the word \_\_\_\_\_ it means you are protecting your data from getting disclosed.

- a) Confidentiality
- b) Integrity
- c) Authentication
- d) Availability

Answer: a

26. \_\_\_\_\_ means the protection of data from modification by unknown users.

- a) Confidentiality
- b) Integrity
- c) Authentication
- d) Non-repudiation

Answer: b

27. When integrity is lacking in a security system, \_\_\_\_\_ occurs.

- a) Database hacking
- b) Data deletion
- c) Data tampering
- d) Data leakage

Answer: c

28. \_\_\_\_\_ of information means, only authorised users are capable of accessing the information.

- a) Confidentiality
- b) Integrity
- c) Non-repudiation
- d) Availability

Answer: d

29. Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?

- a) They help understanding hacking better
- b) They are key elements to a security breach
- c) They help understand security and its components better
- d) They help to understand the cyber-crime better

Answer: c

30. This helps in identifying the origin of information and authentic user. This referred to here as \_\_\_\_\_

- a) Confidentiality
- b) Integrity
- c) Authenticity
- d) Availability

Answer: c

31. Data \_\_\_\_\_ is used to ensure confidentiality.

- a) Encryption
- b) Locking
- c) Deleting
- d) Backup

Answer: a

32. Which of these is not a proper method of maintaining confidentiality?

- a) Biometric verification
- b) ID and password based verification
- c) 2-factor authentication
- d) switching off the phone

Answer: d

33. Data integrity gets compromised when \_\_\_\_\_ and \_\_\_\_\_ are taken control off.

- a) Access control, file deletion
- b) Network, file permission
- c) Access control, file permission
- d) Network, system

Answer: c

34. \_\_\_\_\_ is the latest technology that faces an extra challenge because of CIA paradigm.

- a) Big data
- b) Database systems
- c) Cloud storages
- d) Smart dust

Answer: a

35. One common way to maintain data availability is \_\_\_\_\_

- a) Data clustering
- b) Data backup
- c) Data recovery
- d) Data Altering

Answer: b

36. If you are going to be using personal equipment in the organisation what should you do?

- a) Inform the IT Service Desk
- b) Get consent from your line manager
- c) Ensure the equipment meets standards as defined in the Information Security Policy
- d) All of above

Answer: d

37. What should you do if you are leaving your PC or laptop unattended momentarily? (Select all that apply)

- a) Password lock your device
- b) Do nothing
- c) Both a and b
- d) None of above

Answer: a

38. What should you do if you require software downloading that is not already supplied by the Sports Leaders UK IT Service Desk?

- a) Contact the IT Service Desk
- b) Obtain managerial authorisation
- c) Request through the IT Service Desk and obtain managerial authorisation
- d) None of above

Answer: c.

39. What should you do if you believe your password has been compromised?

- a) Advise your Operations Support Advisor contact
- b) Contact the IT Service Desk immediately
- c) Contact your line manager immediately
- d) Email the Sports Leaders UK distribution group to let everybody know

Answer: b.

40. What is the AC1 form used for?

- a) Requesting a new password because yours has been compromised
- b) To request a new user account for a new member of staff
- c) To extend the period of time a mailbox remains available
- d) To advise the IT Service Desk a staff member is about to leave the organisation

Answer: d.

41. Which of the following actions break Sports Leaders UK policy?

- a) I save all of my information to my department's folder on the shared S drive or to my personal Y drive only
- b) I forward work emails to my personal email so I can work on this information from home
- c) When logged in to terminal services I will save a document on to my personal laptop/computer/tablet so I can work on it offline. I then upload it again after I have finished
- d) Both b and c.

Answer: d.

42. Which of the following actions break data protection legislation?
- a) When logged in to terminal services I will save an organisational document on to my personal laptop/computer/tablet so I can work on it off line. I then upload it again after I have finished.
  - b) I save a list of learner and tutor information on to my encrypted memory stick / flash drive.
  - c) The responsible tutor assessor has requested I send them the list of learner names and dates of birth on their current course so they can check they are all correct. I have confirmed that I am speaking with the right person following the correct procedure. I then email them the list using my Sports Leaders UK account.
  - d) Both a and c.

Answer: d.

43. Where appropriate, which category of report can be distributed to members of the public?
- a) Category 1
  - b) Category 2
  - c) Category 3
  - d) Category 4

Answer: d.

44. When a customer contacts us to confirm/edit data we hold on them, how should we verify their identity?
- a) Information from their database record (e.g. email address)
  - b) Name of first Pet
  - c) Date of Birth
  - d) Both a and c.

Answer: d.

45. A member of Sports Leaders UK has been recruited to my department and will be starting to work in my team in two weeks time. What should I do before they start their new position?
- a) Request access to our S drive departmental folder and any database systems that my team use
  - b) Request that they have any new equipment that may be relevant to their new position. (Monitor, laptop, mobile phone etc)
  - c) Submit an NA1 form to the IT Service Desk
  - d) Submit an AC1 form to HR

Answer: c.

46. You are unexpectedly called by an external company. You have heard of the company before but are not sure if they have a contract with us or not. They ask that you allow them access to your computer so that they can fix a problem. What should you do?

- a) Give them your password and other login details that they may need to fix the problem
- b) Tell them they cannot have your password as we are not allowed to pass this out but let them connect to your computer to fix the problem as our support company have fixed issues by connecting to your computer on previous occasions
- c) Explain that you have not been notified and need to check that their request is valid. Call the IT Service Desk to verify and do not grant access until this has been confirmed
- d) None of above

Answer: c.

47. What are staff responsibilities to physical security in their work surroundings?

- a) If they use any organisational mobile equipment they are responsible for ensuring it is kept safe and secure
- b) They are responsible for ensuring that no equipment is taken from their surroundings without authorisation
- c) They are responsible for ensuring that filing cabinets and doors that are their responsibility are locked and that any electronic equipment is locked or switched off before leaving the premises
- d) All of above

Answer: d.

48. What should you do if you receive a suspicious email? (Select all that apply)

- a) Move it to your junk folder or delete it
- b) Contact IT for assistance
- c) Open and read the email
- d) Both a and b

Answer: d.

49. Which of the following actions is not classed as unauthorised use of systems / electronic equipment?

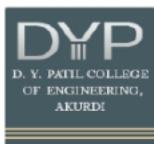
- a) Logging in to my bank account at lunch time
- b) Using my work telephone or mobile to make a personal call without authorisation

- c) Sending an email to the Sports Leaders UK mailing list telling them that there are cakes in the kitchen at Head Office
- d) Both a and c.

Answer: d.

50. If you receive a warning about a virus threat from a friend what should you do?
- a) Delete and ignore it as these type of emails can contain viruses or are a hoax
  - b) Forward it to all staff in the organisation
  - c) Send a new email to my friend and ask that they do not send me personal emails to my work email address
  - d) Both a and c.

Answer: d.



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**DEPARTMENT OF COMPUTER ENGINEERING**

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Academic Year (2019-20) Sem-II  
[QUESTION BANK]

Subject: ICS

Class: BE A&B

Date: 21/04/2020

**UNIT II**  
**DATA ENCRYPTION TECHNIQUES AND STANDARDS**

1. In cryptography, what is cipher?
  - a) algorithm for performing encryption and decryption
  - b) encrypted message
  - c) both algorithm for performing encryption and decryption and encrypted message
  - d) decrypted message

Answer: a
  
2. In asymmetric key cryptography, the private key is kept by \_\_\_\_\_
  - a) sender
  - b) receiver
  - c) sender and receiver
  - d) all the connected devices to the network

Answer: b
  
3. Which one of the following algorithm is not used in asymmetric-key cryptography?
  - a) rsa algorithm
  - b) diffie-hellman algorithm
  - c) electronic code book algorithm
  - d) dsa algorithm

Answer: c
  
4. In cryptography, the order of the letters in a message is rearranged by \_\_\_\_\_
  - a) transpositional ciphers
  - b) substitution ciphers
  - c) both transpositional ciphers and substitution ciphers
  - d) quadratic ciphers

Answer: a
  
5. What is data encryption standard (DES)?
  - a) block cipher
  - b) stream cipher
  - c) bit cipher
  - d) byte cipher

Answer: a

6. Cryptanalysis is used \_\_\_\_\_  
a) to find some insecurity in a cryptographic scheme  
b) to increase the speed  
c) to encrypt the data  
d) to make new ciphers

Answer: a

7. Which one of the following is a cryptographic protocol used to secure HTTP connection?  
a) stream control transmission protocol (SCTP)  
b) transport layer security (TLS)  
c) explicit congestion notification (ECN)  
d) resource reservation protocol

Answer: b

8. Voice privacy in GSM cellular telephone protocol is provided by \_\_\_\_\_  
a) A5/2 cipher  
b) b5/4 cipher  
c) b5/6 cipher  
d) b5/8 cipher

Answer: a

9. ElGamal encryption system is \_\_\_\_\_  
a) symmetric key encryption algorithm  
b) asymmetric key encryption algorithm  
c) not an encryption algorithm  
d) block cipher method

Answer: b

10. Cryptographic hash function takes an arbitrary block of data and returns \_\_\_\_\_  
a) fixed size bit string  
b) variable size bit string  
c) both fixed size bit string and variable size bit string  
d) variable sized byte string

Answer: a

11. Use Caesar's Cipher to decipher the following  
HQBUBSWHG WHAW  
a) ABANDONED LOCK  
b) ENCRYPTED TEXT  
c) ABANDONED TEXT  
d) ENCRYPTED LOCK

Answer: b

12. Caesar Cipher is an example of

- a) Poly-alphabetic Cipher
- b) Mono-alphabetic Cipher
- c) Multi-alphabetic Cipher
- d) Bi-alphabetic Cipher

Answer: b

13. Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.

- a) True
- b) False

Answer: b

14. Which are the most frequently found letters in the English language?

- a) e,a
- b) e,o
- c) e,t
- d) e,i

Answer: c

15. Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis.

- a) Random Polyalphabetic, Plaintext, Playfair
- b) Random Polyalphabetic, Playfair, Vignere
- c) Random Polyalphabetic, Vignere, Playfair, Plaintext
- d) Random Polyalphabetic, Plaintext, Beaufort, Playfair

Answer: c

16. On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-

- a) abqdnwewuwjphfvrrtfznsdokvl
- b) abqdvmwuwjphfvyyrfznydokvl
- c) tbqryrvmwuwjphfvyyrfznydokvl
- d) baiuvmwuwjphfoeiyrzfnydokvl

Answer: b

17. On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text

- a) nlazeiiblji
- b) nlazeiibljii
- c) olaaeiibljk
- d) mlaaeiibljk

Answer: a

18. The Index of Coincidence for English language is approximately

- a) 0.068
- b) 0.038
- c) 0.065
- d) 0.048

Answer: c

19. If all letters have the same chance of being chosen, the IC is approximately

- a) 0.065
- b) 0.035
- c) 0.048
- d) 0.038

Answer: d

20. Consider the cipher text message with relative frequencies:

4 0 10 25 5 32 24 15 6 11 5 5 1 2 6 6 15 19 10 0 6 28 8 2 3 2

The Index of Coincidence is

- a) 0.065
- b) 0.048
- c) 0.067
- d) 0.042

Answer: c

21. Consider the cipher text message:

YJIHX RVHKK KSKHK IQQEVTFLRK QUZVA EVFYZ RVFBX UKGBP  
KYVVB QTAKJ TGBQO ISGHU CWIKX QUXIH DUGIU LMWKG CHXJV  
WEKIH HEHGR EXXSF DMIIL UPSLW UPSLW AJKTR WTOWP IVXBW  
NPTGW EKBYU SBQWS

Relative Frequencies –

3 7 2 2 5 5 7 9 11 4 14 4 2 1 3 4 6 5 6 5 7 10 9 8 4 2

The Index of Coincidence is –

- a) 0.065
- b) 0.048
- c) 0.067
- d) 0.044

Answer: d

22. A symmetric cipher system has an IC of 0.041. What is the length of the key ‘m’?

- a) 1
- b) 3
- c) 2
- d) 5

Answer: d

23. DES follows
- a) Hash Algorithm
  - b) Caesars Cipher
  - c) Feistel Cipher Structure
  - d) SP Networks
- Answer: c
24. The DES Algorithm Cipher System consists of \_\_\_\_\_ rounds (iterations) each with a round key
- a) 12
  - b) 18
  - c) 9
  - d) 16
- Answer: d
25. The DES algorithm has a key length of
- a) 128 Bits
  - b) 32 Bits
  - c) 64 Bits
  - d) 16 Bits
- Answer: c
26. In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits.
- a) True
  - b) False
- Answer: b
27. In the DES algorithm the round key is \_\_\_\_\_ bit and the Round Input is \_\_\_\_\_ bits.
- a) 48, 32
  - b) 64,32
  - c) 56, 24
  - d) 32, 32
- Answer: a
28. In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via
- a) Scaling of the existing bits
  - b) Duplication of the existing bits
  - c) Addition of zeros
  - d) Addition of ones
- Answer: a
29. The Initial Permutation table/matrix is of size
- a)  $16 \times 8$

- b)  $12 \times 8$
- c)  $8 \times 8$
- d)  $4 \times 8$

Answer: c

30. The number of unique substitution boxes in DES after the 48 bit XOR operation are

- a) 8
- b) 4
- c) 6
- d) 12

Answer: a

31. In the DES algorithm the 64 bit key input is shortened to 56 bits by ignoring every 4th bit.

- a) True
- b) False

Answer: b

32. These ciphers replace a character or characters with a different character or characters, based on some key.

- a) Polyalphabetic substitution based
- b) Transposition-based
- c) Substitution based
- d) Mono alphabetic substitution based

Answer: d

33. Encryption is the study of creating and using decryption techniques.

- a) True
- b) False

Answer: b

34. A type of cipher that uses multiple alphabetic strings.

- a) Substitution based
- b) Transposition-based
- c) Polyalphabetic substitution based
- d) Mono alphabetic substitution based

Answer: c

35. An encryption technique with 2 keys is \_\_\_\_\_

- a) Monoalphabetic Cipher
- b) Cryptography
- c) Private key cryptography
- d) Public key cryptography

36. In public key cryptography, a key that decrypts the message.

- a) public key

- b) unique key
- c) private key
- d) security key

Answer: c

37. DES stands for?

- a) Data Encryption Standard
- b) Data Encryption Statistics
- c) Data Encryption System
- d) Data Encryption Sequence

Answer: a

38. Under DES, the data encryption standard took a 64-bit block of data and subjected it to \_\_\_\_\_ levels of encryption.

- a) 64
- b) 8
- c) 16
- d) 4

Answer: c

39. Triple-DES has \_\_\_\_\_ keys.

- a) 1
- b) 2
- c) 5
- d) 4

Answer: b

40. Encryption standard that is selected by the US government to replace DES.

- a) AES
- b) BES
- c) CES
- d) DES

Answer: a

41. AES uses a \_\_\_\_\_ bit block size and a key size of \_\_\_\_\_ bits.

- a) 128; 128 or 256
- b) 64; 128 or 192
- c) 256; 128, 192, or 256
- d) 128; 128, 192, or 256

Answer: d

42. Like DES, AES also uses Feistel Structure.

- a) True
- b) False

Answer: b

43. Which one of the following is not a cryptographic algorithm- JUPITER, Blowfish, RC6, Rijndael and Serpent?

- a) JUPITER
- b) Blowfish
- c) Serpent
- d) Rijndael

Answer: a

44. Which algorithm among- MARS, Blowfish, RC6, Rijndael and Serpent -was chosen as the AES algorithm?

- a) MARS
- b) Blowfish
- c) RC6
- d) Rijndael

Answer: a

45. How many rounds does the AES-192 perform?

- a) 10
- b) 12
- c) 14
- d) 16

Answer: b

46. 6. How many rounds does the AES-256 perform?

- a) 10
- b) 12
- c) 14
- d) 16

Answer: c

47. What is the expanded key size of AES-192?

- a) 44 words
- b) 60 words
- c) 52 words
- d) 36 words

Answer: c

48. The  $4 \times 4$  byte matrices in the AES algorithm are called

- a) States
- b) Words
- c) Transitions
- d) Permutations

Answer: a

49. In AES the  $4 \times 4$  bytes matrix key is transformed into a keys of size \_\_\_\_\_

- a) 32 words

- b) 64 words
- c) 54 words
- d) 44 words

Answer: d

50. For the AES-128 algorithm there are \_\_\_\_\_ similar rounds and \_\_\_\_\_ round is different.

- a) 2 pair of 5 similar rounds ; every alternate
- b) 9 ; the last
- c) 8 ; the first and last
- d) 10 ; no

Answer: b

51. Which of the 4 operations are false for each round in the AES algorithm

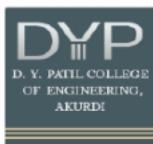
- i) Substitute Bytes
  - ii) Shift Columns
  - iii) Mix Rows
  - iv) XOR Round Key
- a) i) only
  - b) ii) iii) and iv)
  - c) ii) and iii)
  - d) only iv)

Answer: b

52. There is an addition of round key before the start of the AES round algorithms.

- a) True
- b) False

Answer: a



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**DEPARTMENT OF COMPUTER ENGINEERING**

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Academic Year (2019-20) Sem-II  
[QUESTION BANK]

Subject: ICS

Class: BE A&B

Date: 22/04/2020

**UNIT III**  
**PUBLIC KEY AND MANAGEMENT**

1. Public key encryption/decryption is not preferred because
  - a) it is slow
  - b) it is hardware/software intensive
  - c) it has a high computational load
  - d) all of the mentioned

Answer: d
  
2. Which one of the following is not a public key distribution means?
  - a) Public-Key Certificates
  - b) Hashing Certificates
  - c) Publicly available directories
  - d) Public-Key authority

Answer: b
  
3. What is the PGP stand for?
  - a) Permuted Gap Permission
  - b) Permuted Great Privacy
  - c) Pretty Good Permission
  - d) None of the mentioned

Answer: d
  
4. PGP makes use of which cryptographic algorithm?
  - a) DES
  - b) AES
  - c) RSA
  - d) Rabin

Answer: c
  
5. USENET is related to which of the following Public Key distribution schemes?
  - a) Public-Key Certificates
  - b) Public announcements
  - c) Publicly available directories
  - d) Public-Key authority

Answer: b

6. Which of the following public key distribution systems is most secure?
- a) Public-Key Certificates
  - b) Public announcements
  - c) Publicly available directories
  - d) Public-Key authority

Answer: a

7. Which systems use a timestamp?
- i) Public-Key Certificates
  - ii) Public announcements
  - iii) Publicly available directories
  - iv) Public-Key authority
- a) i) and ii)
  - b) iii) and iv)
  - c) i) and iv)
  - d) iv) only

Answer: c

8. Which of these systems use timestamps as an expiration date?
- a) Public-Key Certificates
  - b) Public announcements
  - c) Publicly available directories
  - d) Public-Key authority

Answer: a

9. Which system uses a trusted third party interface?
- a) Public-Key Certificates
  - b) Public announcements
  - c) Publicly available directories
  - d) Public-Key authority

Answer: a

10. Publicly Available directory is more secure than which other system?
- a) Public-Key Certificates
  - b) Public announcements
  - c) Public-Key authority
  - d) None of the mentioned

Answer: b

11. Find the ciphertext for the message {100110101011011} using superincreasing sequence { 1, 3, 5, 11, 35 } and private keys a = 5 and m=37.
- a) C = ( 33, 47, 65 )
  - b) C = ( 65, 33, 47 )
  - c) C = ( 47, 33, 65 )
  - d) C = ( 47, 65, 33 )

Answer: c

12. Suppose that plaintext message units are single letters in the usual 26-letter alphabet with A-Z corresponding to 0-25. You receive the sequence of ciphertext message units 14, 25, 89. The public key is the sequence {57, 14, 3, 24, 8} and the secret key is  $b = 23, m = 61$ .

Decipher the message. The Plain text is

- a) TIN
- b) INT
- c) KIN
- d) INK

Answer: b

13. RSA is also a stream cipher like Merkel-Hellman.

- a) True
- b) False

Answer: a

14. In the RSA algorithm, we select 2 random large values ‘p’ and ‘q’. Which of the following is the property of ‘p’ and ‘q’?

- a) p and q should be divisible by  $\Phi(n)$
- b) p and q should be co-prime
- c) p and q should be prime
- d) p/q should give no remainder

Answer: c

15. In RSA,  $\Phi(n) = \text{_____}$  in terms of p and q.

- a)  $(p)/(q)$
- b)  $(p)(q)$
- c)  $(p-1)(q-1)$
- d)  $(p+1)(q+1)$

Answer: c

16. In RSA, we select a value ‘e’ such that it lies between 0 and  $\Phi(n)$  and it is relatively prime to  $\Phi(n)$ .

- a) True
- b) False

Answer: b

17. For  $p = 11$  and  $q = 19$  and choose  $e=17$ . Apply RSA algorithm where message=5 and find the cipher text.

- a) C=80
- b) C=92
- c) C=56
- d) C=23

Answer: a

18. For  $p = 11$  and  $q = 19$  and choose  $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.

- a) 54
- b) 43
- c) 5
- d) 24

Answer: c

19. USENET falls under which category of public key sharing?

- a) Public announcement
- b) Publicly available directory
- c) Public-key authority
- d) Public-key certificates

Answer: a

20. Perform encryption on the following PT using RSA and find the CT.

10.  $p = 3; q = 11; M = 5$
- a) 28
  - b) 26
  - c) 18
  - d) 12

Answer: b

21.  $p = 5; q = 11; M = 9$

- a) 43
- b) 14
- c) 26
- d) 37

Answer: b

22.  $p = 7; q = 11; M = 8$

- a) 19
- b) 57
- c) 76
- d) 59

Answer: b

23.  $p = 11; q = 13; M = 7$

- a) 84
- b) 124
- c) 106
- d) 76

Answer: c

24.  $p = 17$ ;  $q = 31$ ;  $M = 2$

- a) 254
- b) 423
- c) 128
- d) 523

Answer: c

25.  $n = 35$ ;  $e = 5$ ;  $C = 10$ . What is the plaintext (use RSA) ?

- a) 3
- b) 7
- c) 8
- d) 5

Answer: d

26. What is the general equation for elliptic curve systems?

- a)  $y^3 + b_1 xy + b_2 y = x^3 + a_1 x^2 + a_2 x + a_3$
- b)  $y^3 + b_1 x + b_2 y = x^2 + a_1 x^2 + a_2 x + a_3$
- c)  $y^2 + b_1 xy + b_2 y = x^3 + a_1 x^2 + a_2 x + a_3$
- d)  $y^2 + b_1 xy + b_2 y = x^3 + a_1 x^2 + a_2 x + a_3$

Answer: d

27. In Singular elliptic curve, the equation  $x^3+ax+b=0$  does \_\_\_\_ roots.

- a) does not have three distinct
- b) has three distinct
- c) has three unique
- d) has three distinct unique

Answer: a

28. How many real and imaginary roots does the equation  $y^2=x^3-1$  have

- a) 2 real, 1 imaginary
- b) all real
- c) all imaginary
- d) 2 imaginary, 1 real

Answer: d

29. How many real and imaginary roots does the equation  $y^2=x^3-4x$  have

- a) 2 real, 1 imaginary
- b) all real
- c) all imaginary
- d) 2 imaginary, 1 real

Answer: b

30. 5. In the elliptic curve group defined by  $y^2 = x^3 - 17x + 16$  over real numbers, what is  $P + Q$  if  $P = (0, -4)$  and  $Q = (1, 0)$ ?

- a)  $(15, -56)$
- b)  $(-23, -43)$

c) (69, 26)

d) (12, -86)

Answer: a

31. In the elliptic curve group defined by  $y^2 = x^3 - 17x + 16$  over real numbers, what is  $2P$  if  $P = (4, 3.464)$ ?

a) (12.022, -39.362)

b) (32.022, 42.249)

c) (11.694, -43.723)

d) (43.022, 39.362)

Answer: a

32. "Elliptic curve cryptography follows the associative property."

a) True

b) False

Answer: a

33. "In ECC, the inverse of point  $P = (x_1, y_1)$  is  $Q = (-x_1, y_1)$ ."

a) True

b) False

Answer: b

34. What is the preferred way of encryption?

a) pre shared secret key

b) using key distribution center (KDC)

c) public key-encryption

d) symmetric key

Answer: c

35. What is not a role of encryption?

a) It is used to protect data from unauthorized access during transmission

b) It is used to ensure user authentication

c) It is used to ensure data integrity

d) It is used to ensure data corruption doesn't happen

Answer: d

36. What is cipher-block chaining?

a) Data is logically 'ANDed' with previous block

b) Data is logically 'ORed' with previous block

c) Data is logically 'XORed' with previous block

d) None of the mentioned

Answer: c

37. What is not an encryption standard?

a) AES

b) TES

c) Triple DES

d) DES

Answer: b

38. Which of the following is not a stream cipher?

a) Two fish

b) RC5

c) RC4

d) TBONE

Answer: d

39. What is a Hash Function?

a) It creates a small flexible block of data

b) It creates a small,fixed block of data

c) It creates a encrypted block of data

d) None of the mentioned

Answer: b

40. MD5 produces \_\_\_\_\_ bits hash data.

a) 128

b) 150

c) 160

d) 112

Answer: a

41. SHA-1 produces \_\_\_\_\_ bit of hash.

a) 128

b) 160

c) 150

d) 112

Answer: b

42. Which two of the following are authentication algorithms?

a) MAC

b) AES

c) DAS

d) Digital-signature

Answer: a

43. What is the role of Key Distribution Center?

a) It is used to distribute keys to everyone in world

b) It intended to reduce the risks inherent in exchanging keys

c) All of the mentioned

d) None of the mentioned

Answer: b

44. SHA-1 produces a hash value of

- a) 256 bits
- b) 160 bits
- c) 180 bits
- d) 128 bits

Answer: b

45. What is the number of round computation steps in the SHA-256 algorithm?

- a) 80
- b) 76
- c) 64
- d) 70

Answer: c

46. In SHA-512, the message is divided into blocks of size \_\_\_\_ bits for the hash computation.

- a) 1024
- b) 512
- c) 256
- d) 1248

Answer: a

47. What is the maximum length of the message (in bits) that can be taken by SHA-512?

- a) 2128
- b) 2256
- c) 264
- d) 2192

Answer: a

48. The message in SHA-512 is padded so that it's length is

- a) 832 mod 1024
- b) 768 mod 1024
- c) 960 mod 1024
- d) 896 mod 1024

Answer: d

49. The big-endian format is one in which

- a) the least significant byte is stored in the low-address byte position
- b) the least significant byte is stored in the high-address byte position
- c) the most significant byte is stored in the high-address byte position
- d) the most significant byte is stored in the low-address byte position

Answer: d

50. In SHA-512, the registers 'a' to 'h' are obtained by taking the first 64 bits of the fractional parts of the cube roots of the first 8 prime numbers.

- a) True

b) False

Answer: b

51. What is the size of W (in bits) in the SHA-512 processing of a single 1024-bit block?

a) 64

b) 128

c) 512

d) 256

Answer: a

52. In the SHA-512 processing of a single 1024-bit block, the round constants are obtained

a) by taking the first 64 bits of the fractional parts of the cube roots of the first 80 prime numbers

b) by taking the first 64 bits of the fractional parts of the cube roots of the first 64 prime numbers

c) by taking the first 64 bits of the fractional parts of the square roots of the first 80 prime numbers

d) by taking the first 64 bits of the non-fractional parts of the first 80 prime numbers

Answer: a

53. The output of the N 1024-bit blocks from the Nth stage is

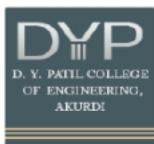
a) 512 bits

b) 1024 bits

c) N x 1024 bits

d) N x 512 bits

Answer: a



**D. Y. PATIL COLLEGE OF ENGINEERING,  
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**DEPARTMENT OF COMPUTER ENGINEERING**

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Academic Year (2019-20) Sem-II  
[QUESTION BANK]

Subject: ICS

Class: BE A&B

Date: 23/04/2020

**UNIT IV**  
**SECURITY REQUIREMENTS**

1. IPSec is designed to provide security at the \_\_\_\_\_

- a) Transport layer
- b) Network layer
- c) Application layer
- d) Session layer

Answer: b

2. In tunnel mode, IPSec protects the \_\_\_\_\_

- a) Entire IP packet
- b) IP header
- c) IP payload
- d) IP trailer

Answer: a

3. Which component is included in IP security?

- a) Authentication Header (AH)
- b) Encapsulating Security Payload (ESP)
- c) Internet key Exchange (IKE)
- d) All of the mentioned

Answer: d

4. WPA2 is used for security in \_\_\_\_\_

- a) Ethernet
- b) Bluetooth
- c) Wi-Fi
- d) Email

Answer: c

5. Extensible authentication protocol is authentication framework frequently used in

- a) Wired personal area network
- b) Wireless networks
- c) Wired local area network
- d) Wired metropolitan area network

Answer: b

6. Pretty good privacy (PGP) is used in \_\_\_\_\_

- a) Browser security
- b) Email security
- c) FTP security
- d) WiFi security

Answer: b

7. PGP encrypts data by using a block cipher called \_\_\_\_\_

- a) International data encryption algorithm
- b) Private data encryption algorithm
- c) Internet data encryption algorithm
- d) Local data encryption algorithm

Answer: a

8. When a DNS server accepts and uses incorrect information from a host that has no authority giving that information, then it is called \_\_\_\_\_

- a) DNS lookup
- b) DNS hijacking
- c) DNS spoofing
- d) DNS authorizing

Answer: c

9. \_\_\_\_\_ ensures the integrity and security of data that are passing over a network.

- a) Firewall
- b) Antivirus
- c) Pentesting Tools
- d) Network-security protocols

Answer: d

10. Which of the following is not a strong security protocol?

- a) HTTPS
- b) SSL
- c) SMTP
- d) SFTP

Answer: c

11. Which of the following is not a secured mail transferring methodology?

- a) POP3
- b) SSIMTP
- c) Mail using PGP
- d) S/MIME

Answer: a

12. \_\_\_\_\_ is a set of conventions & rules set for communicating two or more devices residing in the same network?

- a) Security policies
- b) Protocols
- c) Wireless network
- d) Network algorithms

Answer: b

13. TSL (Transport Layer Security) is a cryptographic protocol used for securing HTTP/HTTPS based connection.

- a) True
- b) False

Answer: a

14. SSL primarily focuses on \_\_\_\_\_

- a) integrity and authenticity
- b) integrity and non-repudiation
- c) authenticity and privacy
- d) confidentiality and integrity

Answer: a

15. In SSL, what is used for authenticating a message?

- a) MAC (Message Access Code)
- b) MAC (Message Authentication Code)
- c) MAC (Machine Authentication Code)
- d) MAC (Machine Access Code)

Answer: b

16. \_\_\_\_\_ is used for encrypting data at network level.

- a) IPSec
- b) HTTPS
- c) SMTP
- d) S/MIME

Answer: a

17. Users are able to see a pad-lock icon in the address bar of the browser when there is \_\_\_\_\_ connection.

- a) HTTP
- b) HTTPS
- c) SMTP
- d) SFTP

Answer: b

18. Why did SSL certificate require in HTTP?

- a) For making security weak
- b) For making information move faster

- c) For encrypted data sent over HTTP protocol
- d) For sending and receiving emails unencrypted

Answer: c

19. Which mode of IPsec should you use to assure the security and confidentiality of data within the same LAN?

- a) AH transport mode
- b) ESP transport mode
- c) ESP tunnel mode
- d) AH tunnel mode

Answer: b

20. Which two types of encryption protocols can be used to secure the authentication of computers using IPsec?

- a) Kerberos V5
- b) SHA
- c) MD5
- d) Both SHA and MD5

Answer: d

21. Which two types of IPsec can be used to secure communications between two LANs?

- a) AH tunnel mode
- b) ESP tunnel mode
- c) Both AH tunnel mode and ESP tunnel mode
- d) ESP transport mode

Answer: c

22. \_\_\_\_\_ provides authentication at the IP level.

- a) AH
- b) ESP
- c) PGP
- d) SSL

Answer: a

23. IPsec defines two protocols: \_\_\_\_\_ and \_\_\_\_\_

- a) AH; SSL
- b) PGP; ESP
- c) AH; ESP
- d) PGP; SSL

Answer: c

24. IP Security operates in which layer of the OSI model?

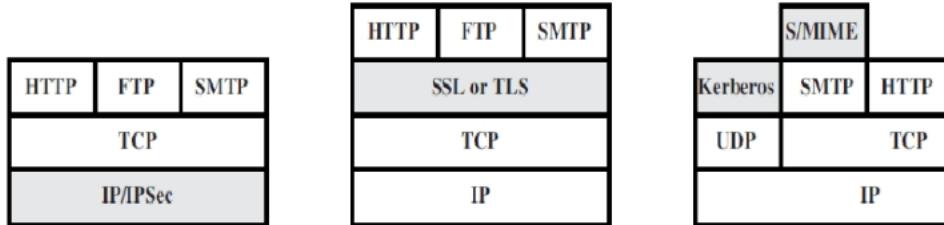
- a) Network
- b) Transport
- c) Application
- d) Physical

Answer: a

25. ESP does not provide \_\_\_\_\_

- a) source authentication
- b) data integrity
- c) privacy
- d) error control

Answer: d



26. In the above figure from left to right, the correct order of the shaded levels are

- a) Network level, Application level, Transport level
- b) Application level, Network level, Transport level
- c) Transport level, Application level, Network level
- d) Network level, Transport level, Application level

Answer: d

27. In the above figure, which of the above shaded block is transparent to end users and applications?

- a) IP/IPSec
- b) SSL
- c) Kerberos
- d) S/MIME

Answer: a

28. In terms of Web Security Threats, “Impersonation of another user” is a Passive Attack.

- a) True
- b) False

Answer: b

29. Which one of the following is not a higher –layer SSL protocol?

- a) Alert Protocol
- b) Handshake Protocol
- c) Alarm Protocol
- d) Change Cipher Spec Protocol

Answer: c

30. In the SSL Protocol, each upper layer message if fragmented into a maximum of \_\_\_\_\_ bytes.

- a) 216

b) 232

c) 214

d) 212

Answer: c

31. The difference between HMAC algorithm and SSLv3 is that pad1 and pad2 are \_\_\_\_\_ in SSLv3 whereas \_\_\_\_\_ in HMAC.

a) NANDed, XORed

b) Concatenated, XORed

c) XORed, NANDed

d) XORed, Concatenated

Answer: b

32. The full form of SSL is

a) Serial Session Layer

b) Secure Socket Layer

c) Session Secure Layer

d) Series Socket Layer

Answer: b

33. After the encryption stage in SSL, the maximum length of each fragment is

a) 214+1028

b) 214+2048

c) 216+1028

d) 216+2048

Answer: b

34. Consider the following example –

Size of Plaintext – 48 bytes.

Size of MAC – 20 bytes.

Block Length – 8 bytes.

How many bytes of padding need to be added to the system?

a) 1

b) 2

c) 3

d) 4

Answer: c

35. Which protocol is used to convey SSL related alerts to the peer entity?

a) Alert Protocol

b) Handshake Protocol

c) Upper-Layer Protocol

d) Change Cipher Spec Protocol

Answer: a

36. Which protocol consists of only 1 bit?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

Answer: d

37. Which protocol is used for the purpose of copying the pending state into the current state?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

Answer: d

38. Which of the following are possible sizes of MACs?

- i) 12 Bytes
- ii) 16 Bytes
- iii) 20 Bytes
- iv) 24 Bytes
- a) i and iii
- b) ii only
- c) ii and iii
- d) ii iii and iv

Answer: c

39. In the alert protocol the first byte takes the value 1 or 2 which corresponds to \_\_\_\_\_ and \_\_\_\_\_ respectively.

- a) Select, Alarm
- b) Alert, Alarm
- c) Warning, Alarm
- d) Warning, Fatal

Answer: d

40. There are \_\_\_\_\_ major ways of stealing email information.

- a) 2
- b) 3
- c) 4
- d) 5

Answer: b

41. Which of them is not a major way of stealing email information?

- a) Stealing cookies
- b) Reverse Engineering
- c) Password Phishing
- d) Social Engineering

Answer: b

42. \_\_\_\_\_ is the method for keeping sensitive information in email communication & accounts secure against unofficial access, loss, or compromise.

- a) Email security
- b) Email hacking
- c) Email protection
- d) Email safeguarding

Answer: a

43. \_\_\_\_\_ is a famous technological medium for the spread of malware, facing problems of spam, & phishing attacks.

- a) Cloud
- b) Pen drive
- c) Website
- d) Email

Answer: d

44. Which of them is not a proper method for email security?

- a) Use Strong password
- b) Use email Encryption
- c) Spam filters and malware scanners
- d) Click on unknown links to explore

Answer: d

45. If a website uses a cookie, or a browser contains the cookie, then every time you visit that website, the browser transfers the cookie to that website.

- a) True
- b) False

Answer: a

46. The stored cookie which contains all your personal data about that website can be stolen away by \_\_\_\_\_ using \_\_\_\_\_ or trojans.

- a) attackers, malware
- b) hackers, antivirus
- c) penetration testers, malware
- d) penetration testers, virus

Answer: a

47. If the data stored in the \_\_\_\_\_ is not encrypted, then after cookie stealing, attackers can see information such as username and password stored by the cookie.

- a) memory
- b) quarantine
- c) cookies
- d) hard drive

Answer: c

48. Which of the following is a non-technical type of intrusion or attack technique?

- a) Reverse Engineering
- b) Malware Analysis
- c) Social Engineering
- d) Malware Writing

Answer: c

49. Which of them is an example of grabbing email information?

- a) Cookie stealing
- b) Reverse engineering
- c) Port scanning
- d) Banner grabbing

Answer: a

50. \_\_\_\_\_ is the technique used for tricking users to disclose their username and passwords through fake pages.

- a) Social Engineering
- b) Phishing
- c) Cookie Stealing
- d) Banner Grabbing

Answer: b

Sr.No	Questions	Correct Answer
1.	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?  a) Confidentiality b) Integrity c) Authenticity d) Availability	C
2.	CIA triad is also known as _____  a) NIC (Non-repudiation, Integrity, Confidentiality) b) AIC (Availability, Integrity, Confidentiality) c) AIN (Availability, Integrity, Non-repudiation) d) AIC (Authenticity, Integrity, Confidentiality)	B
3.	_____ of information means, only authorised users are capable of accessing the information.  a) Confidentiality b) Integrity c) Non-repudiation d) Availability	A
4.	_____ means the protection of data from modification by unknown users.  a) Confidentiality b) Integrity c) Authentication d) Non-repudiation	B
5.	When you use the word _____ it means you are protecting your data from getting disclosed.  a) Confidentiality b) Integrity c) Authentication d) Availability	A
6.	When integrity is lacking in a security system, _____ occurs.  a) Database hacking b) Data deletion c) Data tampering d) Data leakage	C
7.	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?  a) They help understanding hacking better b) They are key elements to a security breach c) They help understand security and its components better d) They help to understand the cyber-crime better	C

8.	<p>This helps in identifying the origin of information and authentic user. This referred to here as _____</p> <p>a) Confidentiality b) Integrity c) Authenticity d) Availability</p>	C
9.	<p>Data _____ is used to ensure confidentiality.</p> <p>a) Encryption b) Locking c) Deleting d) Backup</p>	A
10.	<p>Data integrity gets compromised when _____ and _____ are taken control off.</p> <p>a) Access control, file deletion b) Network, file permission c) Access control, file permission d) Network, system</p>	C
11.	<p>_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.</p> <p>a) Network Security b) Database Security c) Information Security d) Physical Security</p>	C
12.	<p>From the options below, which of them is not a threat to information security?</p> <p>a) Disaster b) Eavesdropping c) Information leakage d) Unchanged default password</p>	D
13.	<p>Compromising confidential information comes under _____</p> <p>a) Bug b) Threat c) Vulnerability d) Attack</p>	B
14.	<p>Which of the following are not security policies?</p> <p>a)Regulatory b)Advisory c)Availability d)User Policies</p>	C

15.	Examples of User Policies is/are:  a)Password Policies b)Internet Usage c)System Use d)All of the above	D
16.	_____ Policy ensures that the organization is maintaining standards set by specific industry regulation.  a)Regulatory b)Advisory c)Availability d>User Policies	A
17.	_____ Policy is like standards rules and regulations set by the management to advise their employees on their activity or behavior  a)Regulatory b)Advisory c)Availability d>User Policies	B
18.	What defines the restrictions on employees such as usage?  a)Regulatory b)Advisory c)Availability d>User Policies	D
19.	The full form of OSI is OSI model is _____  a) Open Systems Interconnection b) Open Software Interconnection c) Open Systems Internet d) Open Software Internet	A
20.	In _____ layer, vulnerabilities are directly associated with physical access to networks and hardware.  a) physical b) data-link c) network d) application	A
21.	Loss of power and unauthorized change in the functional unit of hardware comes under problems and issues of the physical layer.  a) True b) False	A

22.	Which of the following attack can actively modify communications or data?  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	C
23.	OSI architecture mainly focuses on:  1) Security Attack 2) Security Techniques/Mechanisms 3) Categories of Security Service  a)1 b)1 &3 c) 2& 3 d)1,2,3	D
24.	IT security department must periodically check for security logs and entries made during office hours.  a) True b) False	A
25.	Release of Message Content and Traffic analysis are type of :  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	D
26.	If communication between 2 people is overheard by a third person without manipulation of any data, it is called as:  a) Release of Message Content-Passive Attack b) Traffic analysis -Passive Attacks c) Release of Message Content- Active Attacks d) Traffic analysis -Active Attacks	A
27.	If communication between 2 people is overheard by a third person without extraction of any data, it is called as:  a) Release of Message Content-Passive Attack b) Traffic analysis -Passive Attacks c) Release of Message Content- Active Attacks d) Traffic analysis -Active Attacks	D
28.	No modification of data is a characteristic of  a)Active Attack b)Passive Attack	A
29.	Which of the following are Active attack types	D

	a)Masquerade b)Replay c)Modification d)All of the above	
30.	_____ means when an attacker pretends to be authentic user  a)Masquerade b)Replay c)Modification d)Traffic analysis	A
31.	_____ attack is when original data is modified and malicious data is inserted  a)Masquerade b)Replay(Rewrite) c)Modification d)Traffic analysis	B
32.	When original data is changed to make it non-meaningful by attacker it is known as  a)Masquerade b)Replay c)Modification of Messages d)Traffic analysis	C
33.	Which is the type of attack when Network is made unavailable for user  a)Masquerade b)Replay c)Modification d)Denial of Service	D
34.	Modification of Data is done in:  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	A
35.	The information that gets transformed in encryption is  a) Plain text b) Parallel text c) Encrypted text d) Decrypted text	A
36.	1. The process of transforming plain text into unreadable text.	B

	a) Decryption b) Encryption c) Network Security d) Information Hiding	
37.	A process of making the encrypted text readable again.  a) Decryption b) Encryption c) Network Security d) Information Hiding	A
38.	A unique piece of information that is used in encryption.  a) Cipher b) Plain Text c) Key d) Cipher	C
39.	Assurance that authentic user is taking part in communication is:  a)Authentication b)Authorization c)Access Control d)Auditing	A
40.	ATM pin while withdrawing money is an example of using:  a)Authentication b)Authorization c)Access Control d)Auditing	B
41.	Study of creating a d using encryption and decryption techniques.  a) Cipher b) Cryptography c) Encryption d) Decryption	B
42.	An attack in which the user receives unwanted amount of e-mails.  a) Smurfing b) Denial of service c) E-mail bombing d) Ping storm	C
43.	The process of disguising plaintext in such a way that its substance gets hidden (into what is known as cipher-text) is called	D

	a) cryptanalysis b) decryption c) reverse engineering d) encryption	
44.	In _____ same keys are implemented for encrypting as well as decrypting the information.  a) Symmetric Key Encryption b) Asymmetric Key Encryption c) Asymmetric Key Decryption d) Hash-based Key Encryption	A
45.	The procedure to add bits to the last block is termed as _____  a) decryption b) hashing c) tuning d) padding	D
46.	In asymmetric key cryptography, the private key is kept by _____  a) sender b) receiver c) sender and receiver d) all the connected devices to the network	B
47.	Cryptanalysis is used _____ a) to find some insecurity in a cryptographic scheme b) to increase the speed c) to encrypt the data d) to make new ciphers	A
48.	Conventional cryptography is also known as _____ or symmetric-key encryption.  a) secret-key b) public key c) protected key d) primary key	A
49.	_____ is the art & science of cracking the cipher-text without knowing the key.  a) Cracking b) Cryptanalysis c) Cryptography d) Crypto-hacking	B
50.	In _____ a sequence of actions is carried out on this block after a block of plain-text bits is chosen for generating a block of cipher-text bits.	A

- |  |   |  |
|--|---|--|
|  | a) Block Cipher<br>b) One-time pad<br>c) Hash functions<br>d) Vigenere Cipher |  |
|--|---|--|

- a) Block Cipher
- b) One-time pad
- c) Hash functions
- d) Vigenere Cipher

## Question Bank for Information and Cyber Security (ICS)

### 1. Why would a hacker use a proxy server?

- A. To create a stronger connection with the target.
- B. To create a ghost server on the network.
- C. To obtain a remote access connection.
- D. To hide malicious activity on the network.

**Correct Answer – D**

**Explanation –** Proxy servers exist to act as an intermediary between the hacker and the target and services to keep the hacker anonymous to the network.

### 2. What type of symmetric key algorithm using a streaming cipher to encrypt information?

- A. RC4
- B. Blowfish
- C. SHA
- D. MD5

**Correct Answer – A**

**Explanation –** RC4 uses streaming ciphers.

### 3. Which of the following is not a factor in securing the environment against an attack on security?

- A. The education of the attacker
- B. The system configuration
- C. The network architecture
- D. The business strategy of the company
- E. The level of access provided to employees

**Correct Answer – D**

**Explanation –** All of the answers are factors supporting the exploitation or prevention of an attack. The business strategy may provide the motivation for a potential attack, but by itself will not influence the outcome.

### 4. What type of attack uses a fraudulent server with a relay address?

- A. NTLM
- B. MITM
- C. NetBIOS
- D. SMB

**Correct Answer – B**

**Explanation –** MITM (Man in the Middle) attacks create a server with a relay address. It is used in SMB relay attacks.

### 5. What port is used to connect to the Active Directory in Windows 2000?

- A. 80
- B. 445
- C. 139
- D. 389

**Correct Answer – D**

**Explanation –** The Active Directory Administration Tool used for a Windows 2000 LDAP client uses port 389 to connect to the Active Directory service.

### 6. To hide information inside a picture, what technology is used?

- A. Rootkits
- B. Bitmapping

- C. Steganography
- D. Image Rendering

**Correct Answer – C**

**Explanation** – Steganography is the right answer and can be used to hide information in pictures, music, or videos.

**7. Which phase of hacking performs actual attack on a network or system?**

- A. Reconnaissance
- B. Maintaining Access
- C. Scanning
- D. Gaining Access

**Correct Answer – D**

**Explanation** – In the process of hacking, actual attacks are performed when gaining access, or ownership, of the network or system. Reconnaissance and Scanning are information gathering steps to identify the best possible action for staging the attack. Maintaining access attempts to prolong the attack.

**8. Attempting to gain access to a network using an employee's credentials is called the \_\_\_\_\_ mode of ethical hacking.**

- A. Local networking
- B. Social engineering
- C. Physical entry
- D. Remote networking

**Correct Answer – A**

**Explanation** – Local networking uses an employee's credentials, or access rights, to gain access to the network. Physical entry uses credentials to gain access to the physical IT infrastructure.

**9. Which Federal Code applies the consequences of hacking activities that disrupt subway transit systems?**

- A. Electronic Communications Interception of Oral Communications
- B. 18 U.S.C. § 1029
- C. Cyber Security Enhancement Act 2002
- D. 18 U.S.C. § 1030

**Correct Answer – C**

**Explanation** – The Cyber Security Enhancement Act 2002 deals with life sentences for hackers who recklessly endanger the lives of others, specifically transportation systems.

**10. Which of the following is not a typical characteristic of an ethical hacker?**

- A. Excellent knowledge of Windows.
- B. Understands the process of exploiting network vulnerabilities.
- C. Patience, persistence and perseverance.
- D. Has the highest level of security for the organization.

**Correct Answer – D**

**Explanation** – Each answer has validity as a characteristic of an ethical hacker. Though having the highest security clearance is ideal, it is not always the case in an organization.

**11. What is the proper command to perform an Nmap XMAS scan every 15seconds?**

- A. nmap -sX -sneaky
- B. nmap -sX -paranoid
- C. nmap -sX -aggressive
- D. nmap -sX -polite

**Correct Answer – A**

**Explanation** – SX is used to identify a xmas scan, while sneaky performs scans 15 seconds apart.

**12. What type of rootkit will patch, hook, or replace the version of system call in order to hide information?**

- A. Library level rootkits
- B. Kernel level rootkits
- C. System level rootkits
- D. Application level rootkits

**Correct Answer – A**

**Explanation** – Library leve rootkits is the correct answer. Kerel level focuses on replaceing specific code while application level will concentrate on modifying the behavior of the application or replacing application binaries. The type, system level, does not exist for rootkits.

**13. What is the purpose of a Denial of Service attack?**

- A. Exploit a weakness in the TCP/IP stack
- B. To execute a Trojan on a system
- C. To overload a system so it is no longer operational
- D. To shutdown services by turning them off

**Correct Answer – C**

**Explanation** – DoS attacks force systems to stop responding by overloading the processing of the system.

**14. What are some of the most common vulnerabilities that exist in a network or system?**

- A. Changing manufacturer, or recommended, settings of a newly installed application.
- B. Additional unused features on commercial software packages.
- C. Utilizing open source application code
- D. Balancing security concerns with functionality and ease of use of a system.

**Correct Answer – B**

**Explanation** – Linux is an open source code and considered to have greater security than the commercial Windows environment. Balancing security. Ease of use and functionality can open vulnerabilities that already exist. Manufacturer settings, or default settings, may provide basic protection against hacking threats, but need to change to provide advance support. The unused features of application code provide an excellent opportunity to attack and cover the attack.

**15. What is the sequence of a TCP connection?**

- A. SYN-ACK-FIN
- B. SYN-SYN ACK-ACK
- C. SYN-ACK
- D. SYN-SYN-ACK

**Correct Answer – B**

**Explanation** – A three-handed connection of TCP will start with a SYN packet followed by a SYN-ACK packet. A final ACK packet will complete the connection.

**16. What tool can be used to perform SNMP enumeration?**

- A. DNSlookup
- B. Whois
- C. Nslookup
- D. IP Network Browser

**Correct Answer – D**

**Explanation** – SNMPPUtil and IP Network Browser is SNMP enumeration tool

**17. Which ports should be blocked to prevent null session enumeration?**

- A. Ports 120 and 445
- B. Ports 135 and 136
- C. Ports 110 and 137
- D. Ports 135 and 139

**Correct Answer – D**

**Explanation** – Port 139 is the NetBIOS Session port typically can provide large amounts of information using APIs to connect to the system. Other ports that can be blocked in 135, 137,138, and 445.

**18. The first phase of hacking an IT system is compromise of which foundation of security?**

- A. Availability
- B. Confidentiality
- C. Integrity
- D. Authentication

**Correct Answer – B**

**Explanation** – Reconnaissance is about gathering confidential information, such as usernames and passwords.

**19. How is IP address spoofing detected?**

- A. Installing and configuring a IDS that can read the IP header
- B. Comparing the TTL values of the actual and spoofed addresses
- C. Implementing a firewall to the network
- D. Identify all TCP sessions that are initiated but does not complete successfully

**Correct Answer – B**

**Explanation** – IP address spoofing is detectable by comparing TTL values of the actual and spoofed IP addresses

**20. Why would a ping sweep be used?**

- A. To identify live systems
- B. To locate live systems
- C. To identify open ports
- D. To locate firewalls

**Correct Answer – A**

**Explanation** – A ping sweep is intended to identify live systems. Once an active system is found on the network, other information may be distinguished, including location. Open ports and firewalls.

**21. What are the port states determined by Nmap?**

- A. Active, inactive, standby
- B. Open, half-open, closed
- C. Open, filtered, unfiltered
- D. Active, closed, unused

**Correct Answer – C**

**Explanation** – Nmap determines that ports are open, filtered, or unfiltered.

**22. What port does Telnet use?**

- A. 22
- B. 80
- C. 20
- D. 23

**Correct Answer – D**

**Explanation** – Telnet uses port 23.

**23. Which of the following will allow footprinting to be conducted without detection?**

- A. PingSweep
- B. Traceroute
- C. War Dialers
- D. ARIN

**Correct Answer – D**

**Explanation** – ARIN is a publicly accessible database, which has information that could be valuable. Because it is public, any attempt to obtain information in the database would go undetected.

**24. Performing hacking activities with the intent on gaining visibility for an unfair situation is called \_\_\_\_\_.**

- A. Cracking
- B. Analysis
- C. Hacktivism
- D. Exploitation

**Correct Answer – C**

**Explanation** – Hacktivism is the act of malicious hacking for a cause or purpose.

**25. What is the most important activity in system hacking?**

- A. Information gathering
- B. Cracking passwords
- C. Escalating privileges
- D. Covering tracks

**Correct Answer – B**

**Explanation** – Passwords are a key component to access a system, making cracking the password the most important part of system hacking.

**26. A packet with no flags set is which type of scan?**

- A. TCP
- B. XMAS
- C. IDLE
- D. NULL

**Correct Answer – D**

**Explanation** – A NULL scan has no flags set.

**27. Sniffing is used to perform \_\_\_\_\_ fingerprinting.**

- A. Passive stack
- B. Active stack
- C. Passive banner grabbing
- D. Scanned

**Correct Answer – A**

**Explanation** – Passive stack fingerprinting uses sniffing technologies instead of scanning.

**28. Phishing is a form of \_\_\_\_\_.**

- A. Spamming
- B. Identify Theft
- C. Impersonation
- D. Scanning

**Correct Answer – C**

**Explanation** – Phishing is typically a potential attacker posing, or impersonating, a financial institution

**29. Why would HTTP Tunneling be used?**

- A. To identify proxy servers
- B. Web activity is not scanned
- C. To bypass a firewall
- D. HTTP is a easy protocol to work with

**Correct Answer – C**

**Explanation** – HTTP Tunneling is used to bypass the IDS and firewalls present on a network.

**30. Which Nmap scan is does not completely open a TCP connection?**

- A. SYN stealth scan
- B. TCP connect
- C. XMAS tree scan
- D. ACK scan

**Correct Answer – A**

**Explanation** – Also known as a “half-open scanning,” SYN stealth scan will not complete a full TCP connection.

**31. What protocol is the Active Directory database based on?**

- A. LDAP
- B. TCP
- C. SQL
- D. HTTP

**Correct Answer – A**

**Explanation** – Active4 direction in Windows 200 is based on a Lightweight Directory Access Protocol (LDAP).

**32. Services running on a system are determined by \_\_\_\_\_.**

- A. The system’s IP address.
- B. The Active Directory
- C. The system’s network name
- D. The port assigned

**Correct Answer – D**

**Explanation** – Hackers can identify services running on a system by the open ports that are found.

**33. What are the types of scanning?**

- A. Port, network, and services
- B. Network, vulnerability, and port
- C. Passive, active, and interactive
- D. Server, client, and network

**Correct Answer – B**

**Explanation** – The three types of accepted scans are port, network, and vulnerability.

**34. Enumeration is part of what phase of ethical hacking?**

- A. Reconnaissance
- B. Maintaining Access
- C. Gaining Access
- D. Scanning

**Correct Answer – C**

**Explanation** – Enumeration is a process of gaining access to the network by obtaining information on a user or system to be used during an attack.

**35. Keyloggers are a form of \_\_\_\_\_.**

- A. Spyware
- B. Shoulder surfing
- C. Trojan
- D. Social engineering

**Correct Answer – A**

**Explanation** – Keyloggers are a form of hardware or software spyware installed between the keyboard and operating system.

**36. What are hybrid attacks?**

- A. An attempt to crack passwords using words that can be found in dictionary.
- B. An attempt to crack passwords by replacing characters of a dictionary word with numbers and symbols.
- C. An attempt to crack passwords using a combination of characters, numbers, and symbols.
- D. An attempt to crack passwords by replacing characters with numbers and symbols.

**Correct Answer – B**

**Explanation** – Hybrid attacks do crack passwords that are created with replaced characters of dictionary type words.

**37. Which form of encryption does WPA use?**

- A. Shared key
- B. LEAP
- C. TKIP
- D. AES

**Correct Answer – C**

**Explanation** – TKIP is used by WPA

**38. What is the best statement for taking advantage of a weakness in the security of an IT system?**

- A. Threat
- B. Attack
- C. Exploit
- D. Vulnerability

**Correct Answer – C**

**Explanation** – A weakness in security is exploited. An attack does the exploitation. A weakness is vulnerability. A threat is a potential vulnerability.

**39. Which database is queried by Whois?**

- A. ICANN
- B. ARIN
- C. APNIC
- D. DNS

**Correct Answer – A**

**Explanation** – Who utilizes the Internet Corporation for Assigned Names and Numbers.

**40. Having individuals provide personal information to obtain a free offer provided through the Internet is considered what type of social engineering?**

- A. Web-based
- B. Human-based
- C. User-based
- D. Computer-based

**Correct Answer – D**

**Explanation** – Whether using email, a fake website, or popup to entice the user, obtaining information from an individual over the Internet is a computer-based type of social engineering

**1) You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,**

$$A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$$

**Is the given matrix 'A', a valid key to be used for encryption?**

- a. Yes
- b. No
- c. Can't be determined
- d. Data insufficient

**Answer:** b) No

**Explanation:**

For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist. Here, in this case,

$$|A| = 0$$

Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the [Hill cipher](#).

**2) The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?**

- a. The input text is divided into two parts: one being left half and another one being right half.
- b. Swapping of the left and right halves are performed after each round.
- c. The plain text is converted into a matrix form first
- d. None of the above

**Answer:** c) The plain text is converted into a matrix form first

**Explanation:**

The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

**3) Among the following given options, chose the strongest encryption technique?**

- a. DES ( Data Encryption Standard)
- b. Double DES
- c. Triple DES
- d. AES (Advance Encryption Standard)

**Answer:** d) AES (Advance Encryption Standard)

**Explanation:**

It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

**4) What is the full-form of RSA in the RSA encryption technique?**

- a. Round Security Algorithm
- b. Rivest, Shamir, Adleman
- c. Robert, Shamir, Addie
- d. None of the above

**Answer:** b) Rivest, Shamir, Adleman

**Explanation:**

The RSA algorithm was named after the three scientists who developed this technique and the name RSA is itself the abbreviation of their names: Rivest, Shamir, and Adleman.

**5) Consider the following steps,**

- i. Substitution bytes
- ii. Shift Rows
- iii. Mix columns
- iv. Add round key

**The above steps are performed in each round of which of the following ciphers?**

- a. Rail fence cipher
- b. Data Encryption Standard (DES)
- c. Advance Encryption Standard (AES)
- d. None of the above

**Answer:** c) Advance Encryption Standard (AES)

**Explanation:**

Each round of AES includes the mentioned steps.

**1) What is the block size of plain text in SHA- 512 algorithm?**

- a. 512 bits
- b. 1024 bits
- c. 2048 bits

- d. None of the above

**Answer:** b. 1024 bits

**Explanation:**

The SHA- 512 algorithm uses blocks of plain text one at a time to encrypt them into ciphertext. The size of each block in the SHA- 512 algorithm is 1024 bits.

**2) All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?**

- i. Substitution bytes
- ii. Shift rows
- iii. Mix columns
- iv. Add round key

**Options**

- a. i.
- b. iii.
- c. All of the mentioned
- d. None of the mentioned

**Answer:** b. iii.

**Explanation:**

In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.

**3) What does IDEA stand for in the world of cryptography?**

**or**

**The IDEA word in the IDEA algorithm is the abbreviation for which of the following?**

- a. Independent Decryption Environment Analysis
- b. International Defense Encryption Area
- c. International Data Encryption Algorithm
- d. None of the above

**Answer:** c. International Data Encryption Algorithm

**Explanation:**

The IDEA Algorithm stands for "International Data Encryption Algorithm".

**4) How many sub-keys in the total are used by the IDEA for encrypting the plain text into ciphertext?**

- a. 64 sub- keys
- b. 48 sub- keys
- c. 52 sub- keys
- d. Only one key and no subkeys

**Answer:** c. 52 sub- keys

**Explanation:**

There are a total of 8 rounds in the IDEA technique for encryption and each of them uses 6 keys. Apart from that, 4 extra keys are used in the final round that is the output transformation round. This gives us a total of 52 subkeys.

$$(8 \times 6) + 4 = 52$$

**5) "The number of rounds in the AES algorithm depends upon the key size being used."**  
**Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?**

- a. 128 key size: 10 rounds
- b. 192 key size: 12 rounds
- c. 256 key size: 14 rounds
- d. All of the above

**Answer:** d. All of the above

**Explanation:**

All the mentioned options display the correct relation between the number of rounds and the key size used in the AES algorithm.

**6) Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?**

- a. Avalanche effect
- b. Completeness
- c. Both a. and b.
- d. None of the above

**Answer:** c. Both a. and b.

**Explanation:**

Avalanche effect and Completeness are the two characteristic properties of Block ciphers which differ them from stream ciphers.

**81. Public key encryption/decryption is not preferred because**

- a. it is slow

- b.** it is hardware/software intensive
- c.** it has a high computational load
- d.** all of the mentioned

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**Answer:** (d).all of the mentioned

- 82.** Which one of the following is not a public key distribution means?
- a.** Public-Key Certificates
  - b.** Hashing Certificates
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (b).Hashing Certificates

- 83.** What is the PGP stand for?
- a.** Permuted Gap Permission
  - b.** Permuted Great Privacy
  - c.** Pretty Good Permission
  - d.** None of the mentioned

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**Answer:** (d).None of the mentioned

- 84.** PGP makes use of which cryptographic algorithm?
- a.** DES
  - b.** AES

c. RSA

d. Rabin

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**Answer:** (c).RSA

**85.** USENET is related to which of the following Public Key distribution schemes?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (b).Public announcements

**86.** Which of the following public key distribution systems is most secure?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (a).Public-Key Certificates

**87.** Which systems use a timestamp?

i) Public-Key Certificates

ii) Public announcements

iii) Publicly available directories

iv) Public-Key authority

a. i) and ii)

- b.** iii) and iv)
- c.** i) and iv)
- d.** iv) only

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**Answer:** (c).i) and iv)

- 88.** Which of these systems use timestamps as an expiration date?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 89.** Which system uses a trusted third party interface?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 90.** Publicly Available directory is more secure than which other system?
- a.** Public-Key Certificates
  - b.** Public announcements

- c. Public-Key authority
- d. None of the mentioned

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**Answer:** (b).Public announcements

1. A method used by an IDS that involves checking for a pattern to identify unauthorized activity.*(No Answer)*
  - a. **CORRECT:** Pattern Matching
  - b. Session Splicing
  - c. Protocol Decoding
  - d. State Table
2. A list or table of stored by a router (or switch) that controls access to and from a network.*(No Answer)*
  - . State Table
    - a. **CORRECT:** Access Control List (ACL)
    - b. Session Splicing
    - c. Packet Filter
3. An analysis method used by some IDS that looks for instances that are not considered normal behavior.*(No Answer)*
  - . Stateful Inspection
    - a. **CORRECT:** Anomaly Detection
    - b. Evasion
    - c. Pattern Matching
4. Bypassing a device, or performing another action, to attack or place malware on a target network without being detected.*(No Answer)*
  - . Packet Filter
    - a. State Table
    - b. **CORRECT:** Evasion
    - c. Honeypot

5. A type of firewall closely related to a packet filter that can track the status of a connection through use of a state table that keeps track of connection activities.(*No Answer*)
  - . Anomaly Detection
    - a. Protocol Decoding
    - b. **CORRECT:** Stateful Inspection
    - c. State Table
6. A tool that uses the monitoring of network traffic, detection of unauthorized access attempts, and notification of unauthorized access attempts to network administrator.(*No Answer*)
  - . Anomaly Detection
    - a. Access Control List (ACL)
    - b. **CORRECT:** Intrusion Detection System (IDS)
    - c. Session Splicing
7. A type of stateless inspection used in some routers and firewalls to limit flow of traffic to what is on the ACL.(*No Answer*)
  - . **CORRECT:** Packet Filter
    - a. Proxy Server
    - b. Evasion
    - c. State Table
8. A way of looking at raw packet data.(*No Answer*)
  - . Proxy Server
    - a. Session Splicing
    - b. **CORRECT:** Protocol Decoding
    - c. Pattern Matching
9. A server (or application) that intercepts the requests clients make of another server, fills the requests that it can, and then forwards the requests it can't handle on to the other server thus helping to improve performance and security.(*No Answer*)
  - . Honeypot
    - a. **CORRECT:** Proxy Server
    - b. Packet Filter
    - c. State Table

10. A table in which data about connection activity is kept by a stateful firewall.(*No Answer*)

- . Evasion
  - a. **CORRECT:** State Table
  - b. Honeypot
  - c. Proxy Server

11. Something set up on a separate network (or in DMZ) to attract hackers and lure them away from the real network; it logs keystrokes, provides other information about an attacker, and also provides warning that someone is trying to attack your network.(*No Answer*)

- . Proxy Server
  - a. State Table
  - b. Evasion
  - c. **CORRECT:** Honeypot

12. A way to change network address information in IP packet headers with a router by connecting multiple computers using one IP address connected to the Internet (or IP network) to convert many private addresses into one public address.(*No Answer*)

- . Access Control List (ACL)
  - a. **CORRECT:** Network Address Translation (NAT)
  - b. Anomaly Detection
  - c. Intrusion Detection System (IDS)

13. A method of avoiding detection by an IDS by sending portions of a request in different packets.(*No Answer*)

- . **CORRECT:** Session Splicing
  - a. Protocol Decoding
  - b. Pattern Matching
  - c. Evasion

1.

What are drawbacks of the host based IDS ?

- A.) Unselective logging of messages may increase the audit burdens
- B.) Selective logging runs the risk of missed attacks
- C.) They are very fast to detect

- D.) They have to be programmed for new patterns

**Show Answer**

**Answer: Option 'A'**

**Unselective logging of messages may increase the audit burdens**

2.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

3.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

4.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

5.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider

- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

6.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

7.

What are characteristics of stack based IDS ?

- A.) They are integrated closely with the TCP/IP stack and watch packets
- B.) The host operating system logs in the audit information
- C.) It is programmed to interpret a certain series of packets
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They are integrated closely with the TCP/IP stack and watch packets**

8.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider
- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

9.

What are characteristics of Network based IDS ?

- A.) They look for attack signatures in network traffic
- B.) Filter decides which traffic will not be discarded or passed
- C.) It is programmed to interpret a certain series of packet
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They look for attack signatures in network traffic**

10.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

11.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

1. -systematic tracking of incoming and outgoing traffic: to ascertain how an attack was carried out or how an event occurred on a network.

-intruders and network users often leave trail behind

-identify locations where relevant digital evidence exists

-crucial when developing data map of digital evidence(*No Answer*)

- a. SIM Cards
  - b. Windows Registry
  - c. **CORRECT: Network Forensics**
  - d. Drive Slack
2. -personal digital assistant: can be separated devices from mobile phones
- PDA houses a microprocessor, ROM, RAM, disk drive and various components
- most common PDA, although not referred to as such:IPAD(*No Answer*)
- . Partition
    - a. SIM Cards
    - b. EEPROM
    - c. **CORRECT: PDA's**
3. -a logical drive(*No Answer*)
- . EEPROM
    - a. PDA's
    - b. SIM Cards
    - c. **CORRECT: Partition**
4. - .EVE -> .DFT -> IOLogErrors
- .DD -> .DFT -> IOLogErrors -> MD5(*No Answer*)
- . Additional SIM Card Purposes
    - a. Types of The Formats ProDiscover Creates
    - b. **CORRECT: Files Found When Acquisition is Done (ProDiscover)**
    - c. Mobile Forensics Equipment
5. -allows you to create a representation of another computer on an existing physical computer.
- a virtual machine is just a few files on your hard drive: must allocate space to it; dynamic or static
- a virtual machine recognizes components of the physical machine its on: virtual OS is limited by the physical machines O/S and RAM. (*No Answer*)

- . Partition
  - a. **CORRECT:** Virtual Machine
  - b. Drive Slack
  - c. SIM Cards
- 6. Considerations
  - determine the scope of the investigation.
  - determine what the case requires
  - whether you should collect all info
  - what to do in case of scope creep
- \*the key is to start with a plan but remain flexible in the face of new evidence(*No Answer*)
- . **CORRECT:** Examination Plan
  - a. Drive Slack
  - b. Partition
  - c. SIM Cards
- 7. Can be exported as:
  - RTF ~good for thumbnails and book marks
  - TEXT~plain text(*No Answer*)
- . Drive Slack
  - a. Write Blockers
  - b. Windows Registry
  - c. **CORRECT:** ProDiscover Report
- 8. -UNIX DD~most common raw image format
  - .EVE~has case metadata information(*No Answer*)
- . EnCase Output Formats
  - a. Five Major Categories
  - b. ProDiscover Report
  - c. **CORRECT:** Types of The Formats ProDiscover Creates
- 9. -electronically erasable programmable read-only memory
  - how phones store system data

-enables service providers to reprogram phones without having to physically access memory chips

-OS is stored in ROM: nonvolatile memory(*No Answer*)

- . Partition
  - a. file system
  - b. **CORRECT: EEPROM**
  - c. SIM Cards

10. -file manipulation: file names and extensions/ hidden property

-disk manipulation: hidden partitions/bad clusters

-encryption: bit shifting/stenography(*No Answer*)

- . Windows Registry
  - a. Examination Plan
  - b. Virtual Machine
  - c. **CORRECT: Data-hiding Techniques**

11. -gives us a road map to data on a disk

-type of file system an OS used determines how data is stored on the disk(*No Answer*)

- . **CORRECT: file system**
  - a. Drive Slack
  - b. EEPROM
  - c. SIM Cards

12. -the main concerns with mobile devices are loss of power and synchronization with PC's or the cloud (wired or wireless).

-all mobile devices have volatile memory that may contain valuable information: making sure they don't lose power before you can retrieve RAM data is critical.

-isolated the device from incoming signals with one of the following options: shielded container (paint can, enclosures), use the Faraday Bag, use eight layers of anti-static bags, aluminum foil.

-if device is not isolated, the data of the device will continue to change while in custody of the specialist.(*No Answer*)

- . Additional SIM Card Purposes
  - a. Network Forensics
  - b. **CORRECT:** Acquisition Procedures for Mobile Devices
  - c. Challenges With Mobile Devices

13. -acquisition~preservation~collection

-validation~discrimination~culling

~examination~extraction~review

~reconstruction~analysis

~reporting~presentation~production(*No Answer*)

- . Network Forensics
  - a. **CORRECT:** Five Major Categories
  - b. SIM Cards
  - c. Write Blockers

14. -a database that stores hardware and software configuration information, network connections, user preferences, and setup information.

-can contain valuable info about current/past applications and user created information(*No Answer*)

- . SIM Cards
  - a. **CORRECT:** Windows Registry
  - b. file system
  - c. Write Blockers

15. -unused space in a cluster between the end of an active file and the end of a cluster. (Includes RAM slack and file slack)(*No Answer*)

- . SIM Cards
  - a. file system

- b. Write Blockers
- c. **CORRECT:** Drive Slack

16. -subscribers identity module cards

-found most commonly in GSM devices

-microprocessor and from 16KB to 4MB EEPROM

-GSM refers to mobile phones as "mobile station" and divides a station into two parts: the sim card and the mobile equipment and common network in global networks

-portability of information makes SIM cards versatile(*No Answer*)

- . EEPROM
  - a. PDA's
  - b. **CORRECT:** SIM Cards
  - c. Drive Slack

17. -EnCase (E01)

-RAW (DD)

-SMART (S01)

-Sleuth Kit (AFF)(*No Answer*)

- . Five Major Categories
  - a. **CORRECT:** Different FTK Output Formats
  - b. EnCase Output Formats
  - c. Network Forensics

18. -How long a piece of information lasts on a system versus data that must be collected and preserved before its lost, corrupted, or backed up.

Order:

- 1-live network devices (switches/routers)
- 2-live computers/laptops (RAM and processes)
- 3-live other devices (smartphones, PDA's)

4-Devices/computers already OFF

5-Removable media/cables-adapters/documents(*No Answer*)

. **CORRECT:** Order of Volatility

- a. Partition
- b. Drive Slack
- c. Network Forensics

19. -devices are 'live' computers; traditional "stand-alone OFF computers" approach may be inadequate

-devices are connected to 'live' wireless networks; traditional "disconnect" or "segregate" approach network forensics may be inadequate

-devices lack hardware, software and operating system standardization; many variables affect forensic and eDiscovery techniques and analysis results.

-devices are dynamic in location; communications and operability; computers are mostly static.*(No Answer)*

. **CORRECT:** Challenges With Mobile Devices

- a. Write Blockers
- b. Network Forensics
- c. Acquisition Procedures for Mobile Devices

20. -analog

-digital personal communications service (PC's)

-third-generation (3G and 4G): increased bandwidth

\*continuing to evolve*(No Answer)*

. Data-hiding Techniques

- a. **CORRECT:** Three Generations of Mobile Phone Technology
- b. Order of Volatility
- c. Challenges With Mobile Devices

21. -identifies the subscriber to the network

-stores personal information

-stores address books and messages

-stores service-related information(*No Answer*)

- . Five Major Categories
  - a. ProDiscover Report
  - b. **CORRECT:** Additional SIM Card Purposes
  - c. SIM Cards

22. -hardware utilized for protecting source/hard drive from data alteration/tampering while collecting, preserving, and reviewing CSI.

-prevents operating systems and computer programs from making "writes" to the hard drive being acquired, examined, or analyzed.

-write blockers sits between the suspect/source drive and your analysis computer. (It is usually a hardware device, but software based write blockers may be utilized.*(No Answer)*

- . file system
  - a. Drive Slack
  - b. SIM Cards
  - c. **CORRECT:** Write Blockers

23. primary Windows based:

-EnCase

-Forensic Tool Kit (FTK)

-ProDiscover

-OSForensics

primarily Linux based:

-Sleuth Kit and Autopsy

-Helix

-Knoppix STD

-SMART(*No Answer*)

- . Computer Forensic and EDiscovery Tool Needs

- a. **CORRECT:** Computer Forensic Software Tools
  - b. Network Forensics
  - c. Mobile Forensics Equipment
24. -SIM card readers: a combination hardware/software device used to access the SIM card. You need to be in a forensic lab equip with appropriate anti-static devices.

-general forensic procedure for SIM cards:

- 1-remove the back panel of device
- 2-remove the battery
- 3-remove the SIM card
- 4-insert the SIM card into the card reader
- 5-extract relevant information

-a variety of SIM card readers are on the market: some are forensically sound and some are not

-documenting messages that haven't been read yet is critical: use a video camera to capture each screen, if data cannot be extracted with forensic hardware/software

-mobile forensic tools and utilities:

- Ramsey forensic text enclosure (hardware)
- SIM card reader (hardware)
- Paraben Device Seizure (software)
- BitPim (software)
- Susteen SecureView (software)
- EnCase and FTK (software)(*No Answer*)

- . file system
  - a. Network Forensics
  - b. **CORRECT:** Mobile Forensics Equipment
  - c. Computer Forensic Software Tools

25. -EX01

-E01 (Legacy)(*No Answer*)

- . **CORRECT:** EnCase Output Formats
  - a. Different FTK Output Formats
  - b. EEPROM

c. Network Forensics

26. look for versatility, flexibility, and robustness:

- Lab OS
- File System
- Automated Features
- Venders Reputation
- Acceptance by forensic community
- documented testing and validation

-Keep in mind what application files and operating system you'd be analyzing(*No Answer*)

. **CORRECT:** Computer Forensic and EDiscovery Tool Needs

- a. Mobile Forensics Equipment
- b. Types of The Formats ProDiscover Creates
- c. Computer Forensic Software Tools

Sr.No	Questions	Correct Answer
1.	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?  a) Confidentiality b) Integrity c) Authenticity d) Availability	C
2.	CIA triad is also known as _____  a) NIC (Non-repudiation, Integrity, Confidentiality) b) AIC (Availability, Integrity, Confidentiality) c) AIN (Availability, Integrity, Non-repudiation) d) AIC (Authenticity, Integrity, Confidentiality)	B
3.	_____ of information means, only authorised users are capable of accessing the information.  a) Confidentiality b) Integrity c) Non-repudiation d) Availability	A
4.	_____ means the protection of data from modification by unknown users.  a) Confidentiality b) Integrity c) Authentication d) Non-repudiation	B
5.	When you use the word _____ it means you are protecting your data from getting disclosed.  a) Confidentiality b) Integrity c) Authentication d) Availability	A
6.	When integrity is lacking in a security system, _____ occurs.  a) Database hacking b) Data deletion c) Data tampering d) Data leakage	C
7.	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?  a) They help understanding hacking better b) They are key elements to a security breach c) They help understand security and its components better d) They help to understand the cyber-crime better	C

8.	<p>This helps in identifying the origin of information and authentic user. This referred to here as _____</p> <p>a) Confidentiality b) Integrity c) Authenticity d) Availability</p>	C
9.	<p>Data _____ is used to ensure confidentiality.</p> <p>a) Encryption b) Locking c) Deleting d) Backup</p>	A
10.	<p>Data integrity gets compromised when _____ and _____ are taken control off.</p> <p>a) Access control, file deletion b) Network, file permission c) Access control, file permission d) Network, system</p>	C
11.	<p>_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.</p> <p>a) Network Security b) Database Security c) Information Security d) Physical Security</p>	C
12.	<p>From the options below, which of them is not a threat to information security?</p> <p>a) Disaster b) Eavesdropping c) Information leakage d) Unchanged default password</p>	D
13.	<p>Compromising confidential information comes under _____</p> <p>a) Bug b) Threat c) Vulnerability d) Attack</p>	B
14.	<p>Which of the following are not security policies?</p> <p>a)Regulatory b)Advisory c)Availability d)User Policies</p>	C

15.	Examples of User Policies is/are:  a)Password Policies b)Internet Usage c)System Use d)All of the above	D
16.	_____ Policy ensures that the organization is maintaining standards set by specific industry regulation.  a)Regulatory b)Advisory c)Availability d>User Policies	A
17.	_____ Policy is like standards rules and regulations set by the management to advise their employees on their activity or behavior  a)Regulatory b)Advisory c)Availability d>User Policies	B
18.	What defines the restrictions on employees such as usage?  a)Regulatory b)Advisory c)Availability d>User Policies	D
19.	The full form of OSI is OSI model is _____  a) Open Systems Interconnection b) Open Software Interconnection c) Open Systems Internet d) Open Software Internet	A
20.	In _____ layer, vulnerabilities are directly associated with physical access to networks and hardware.  a) physical b) data-link c) network d) application	A
21.	Loss of power and unauthorized change in the functional unit of hardware comes under problems and issues of the physical layer.  a) True b) False	A

22.	Which of the following attack can actively modify communications or data?  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	C
23.	OSI architecture mainly focuses on:  1) Security Attack 2) Security Techniques/Mechanisms 3) Categories of Security Service  a)1 b)1 &3 c) 2& 3 d)1,2,3	D
24.	IT security department must periodically check for security logs and entries made during office hours.  a) True b) False	A
25.	Release of Message Content and Traffic analysis are type of :  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	D
26.	If communication between 2 people is overheard by a third person without manipulation of any data, it is called as:  a) Release of Message Content-Passive Attack b) Traffic analysis -Passive Attacks c) Release of Message Content- Active Attacks d) Traffic analysis -Active Attacks	A
27.	If communication between 2 people is overheard by a third person without extraction of any data, it is called as:  a) Release of Message Content-Passive Attack b) Traffic analysis -Passive Attacks c) Release of Message Content- Active Attacks d) Traffic analysis -Active Attacks	D
28.	No modification of data is a characteristic of  a)Active Attack b)Passive Attack	A
29.	Which of the following are Active attack types	D

	a)Masquerade b)Replay c)Modification d)All of the above	
30.	_____ means when an attacker pretends to be authentic user  a)Masquerade b)Replay c)Modification d)Traffic analysis	A
31.	_____ attack is when original data is modified and malicious data is inserted  a)Masquerade b)Replay(Rewrite) c)Modification d)Traffic analysis	B
32.	When original data is changed to make it non-meaningful by attacker it is known as  a)Masquerade b)Replay c)Modification of Messages d)Traffic analysis	C
33.	Which is the type of attack when Network is made unavailable for user  a)Masquerade b)Replay c)Modification d)Denial of Service	D
34.	Modification of Data is done in:  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	A
35.	The information that gets transformed in encryption is  a) Plain text b) Parallel text c) Encrypted text d) Decrypted text	A
36.	1. The process of transforming plain text into unreadable text.	B

	a) Decryption b) Encryption c) Network Security d) Information Hiding	
37.	A process of making the encrypted text readable again.  a) Decryption b) Encryption c) Network Security d) Information Hiding	A
38.	A unique piece of information that is used in encryption.  a) Cipher b) Plain Text c) Key d) Cipher	C
39.	Assurance that authentic user is taking part in communication is:  a)Authentication b)Authorization c)Access Control d)Auditing	A
40.	ATM pin while withdrawing money is an example of using:  a)Authentication b)Authorization c)Access Control d)Auditing	B
41.	Study of creating a d using encryption and decryption techniques.  a) Cipher b) Cryptography c) Encryption d) Decryption	B
42.	An attack in which the user receives unwanted amount of e-mails.  a) Smurfing b) Denial of service c) E-mail bombing d) Ping storm	C
43.	The process of disguising plaintext in such a way that its substance gets hidden (into what is known as cipher-text) is called	D

	a) cryptanalysis b) decryption c) reverse engineering d) encryption	
44.	In _____ same keys are implemented for encrypting as well as decrypting the information.  a) Symmetric Key Encryption b) Asymmetric Key Encryption c) Asymmetric Key Decryption d) Hash-based Key Encryption	A
45.	The procedure to add bits to the last block is termed as _____  a) decryption b) hashing c) tuning d) padding	D
46.	In asymmetric key cryptography, the private key is kept by _____  a) sender b) receiver c) sender and receiver d) all the connected devices to the network	B
47.	Cryptanalysis is used _____ a) to find some insecurity in a cryptographic scheme b) to increase the speed c) to encrypt the data d) to make new ciphers	A
48.	Conventional cryptography is also known as _____ or symmetric-key encryption.  a) secret-key b) public key c) protected key d) primary key	A
49.	_____ is the art & science of cracking the cipher-text without knowing the key.  a) Cracking b) Cryptanalysis c) Cryptography d) Crypto-hacking	B
50.	In _____ a sequence of actions is carried out on this block after a block of plain-text bits is chosen for generating a block of cipher-text bits.	A

- |  |  |  |
|--|--|--|
|  | <ul style="list-style-type: none"><li>a) Block Cipher</li><li>b) One-time pad</li><li>c) Hash functions</li><li>d) Vigenere Cipher</li></ul> |  |
|--|--|--|

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a threat to information security?
((OPTION_A)) THIS IS MANDATORY OPTION	Disaster
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Eavesdropping
((OPTION_C)) This is optional	Information leakage
((OPTION_D)) This is optional	Unchanged default password
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Disaster, eavesdropping and information leakage come under information security threats whereas not changing the default password of any system, hardware or any software comes under the category of vulnerabilities that the user may pose to its system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compromising confidential information comes under
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	Threats are anything that may cause damage or harm to a computer system, individual or any information. Compromising of confidential information means extracting out sensitive data from a system by illegal manner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Lack of access control policy is a
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Access control policies are incorporated to a security system for restricting of unauthorised access to any logical or physical system. Every security compliance program must need this as a fundamental component. Those systems which lack this feature is vulnerable.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Possible threat to any information cannot be
((OPTION_A)) THIS IS MANDATORY OPTION	reduced
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transferred
((OPTION_C)) This is optional	protected
((OPTION_D)) This is optional	ignored
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	When there lies a threat to any system, safeguards can be implemented, outsourced, distributed or transferred to some other system, protected using security tools and techniques but cannot be ignored.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?
((OPTION_A))  THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))  This is optional	Authenticity
((OPTION_D))  This is optional	Availability
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	According to the CIA triad the three components that a security need is the Confidentiality, Integrity, Availability (as in short read as

		
CIA).		

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When you use the word _____ it means you are protecting your data from getting disclosed.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	

((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Confidentiality is what every individual prefer in terms of physical privacy as well as digital privacy. This term means our information needs to be protected from getting disclose to unauthorised parties, for which we use different security mechanisms like password protection, biometric security, OTPs (One Time Passwords) etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ means the protection of data from modification by unknown users.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Non-repudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	A information only seems valuable if it is correct and do not get modified during its journey in the course of arrival. The element integrity makes sure that the data sent or generated from other end is correct and is not modified by any unauthorised party in between.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When integrity is lacking in a security system, _____ occurs.
((OPTION_A)) THIS IS MANDATORY OPTION	Database hacking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data deletion
((OPTION_C)) This is optional	Data tampering
((OPTION_D)) This is optional	Data leakage
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The term data tampering is used when integrity is compromised in any security model and checking its integrity later becomes costlier. Example: let suppose you sent \$50 to an authorised person and in between a Man in the Middle (MiTM) attack takes place and the value has tampered to \$500. This is how integrity is compromised.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	of information means, only authorised users are capable of accessing the information.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional.	

If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Information seems useful only when right people (authorised users) access it after going through proper authenticity check. The key element availability ensures that only authorised users are able to access the information.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
((OPTION_A)) THIS IS MANDATORY OPTION	They help understanding hacking better
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	They are key elements to a security breach
((OPTION_C)) This is optional	They help understands security and its components better
((OPTION_D)) This is optional	They help to understand the cyber-crime better
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The four elements of security viz. confidentiality, integrity, authenticity & availability helps in better understanding the pillars of security and its different components.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This helps in identifying the origin of information and authentic user. This referred to here as
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The key element, authenticity helps in assuring the fact that the information is from the original source.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data _____ is used to ensure confidentiality.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Locking
((OPTION_C)) This is optional	Deleting
((OPTION_D)) This is optional	Backup
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Data encryption is the method of converting plain text to cipher-text and only authorised users can decrypt the message back to plain text. This preserves the confidentiality of data

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is not a proper method of maintaining AUTHENTICATION?
((OPTION_A)) THIS IS MANDATORY OPTION	Biometric verification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ID and password based verification
((OPTION_C)) This is optional	2-factor authentication
((OPTION_D)) This is optional	switching off the phone
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Switching off the phone in the fear of preserving the confidentiality of data is not a proper solution for data confidentiality. Fingerprint detection, face recognition, password-based authentication, two-step verifications are some of these.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data integrity gets compromised when _____ and _____ are taken control off.
((OPTION_A)) THIS IS MANDATORY OPTION	Access control, file deletion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Network, file permission
((OPTION_C)) This is optional	Access control, file permission
((OPTION_D)) This is optional	Network, system

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The two key ingredients that need to be kept safe are: access control & file permission in order to preserve data integrity.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One common way to maintain data availability is
((OPTION_A)) THIS IS MANDATORY OPTION	Data clustering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data backup
((OPTION_C)) This is optional	Data recovery
((OPTION_D)) This is optional	Data Altering

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	For preventing data from data-loss, or damage data backup can be done and stored in a different geographical location so that it can sustain its data from natural disasters & unpredictable events.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hackers who help in finding bugs and vulnerabilities in a system & don't intend to crack a system are termed as
((OPTION_A)) THIS IS MANDATORY OPTION	Black Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Grey Hat Hackers
((OPTION_D)) This is optional	Red Hat Hackers

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	White Hat Hackers are cyber security analysts and consultants who have the intent to help firms and Governments in the identification of loopholes as well as help to perform penetration tests for securing a system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the legal form of hacking based on which jobs are provided in IT industries and firms?
((OPTION_A)) THIS IS MANDATORY OPTION	Cracking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Non ethical Hacking
((OPTION_C)) This is optional	Ethical hacking
((OPTION_D))	Hactivism

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Ethical Hacking is an ethical form of hacking done by white-hat hackers for performing penetration tests and identifying potential threats in any organizations and firms.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	They are nefarious hackers, and their main motive is to gain financial profit by doing cyber crimes. Who are "they" referred to here?
((OPTION_A)) THIS IS MANDATORY OPTION	Gray Hat Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Hactivists
((OPTION_D))	Black Hat Hackers

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Black Hat hackers also termed as 'crackers' and are a major type of cyber criminals who take unauthorized access in user's account or system and steal sensitive data or inject malware into the system for their profit or to harm the organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are the combination of both white as well as black hat hackers.
((OPTION_A)) THIS IS MANDATORY OPTION	Grey Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Green Hat hackers
((OPTION_C)) This is optional	Blue Hat Hackers

((OPTION_D)) This is optional	Red Hat Hacker
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Grey Hat Hackers have a blending character of both ethical as well as un-ethical hacker. They hack other's systems for fun but do not harm the system, exploits bugs and vulnerabilities in network without the knowledge of the admin or the owner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The amateur or newbie in the field of hacking who don't have many skills about coding and in-depth working of security and hacking tools are called _____
((OPTION_A)) THIS IS MANDATORY OPTION	Sponsored Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hactivists
((OPTION_C))	Script Kiddies

This is optional	
((OPTION_D))	Whistle Blowers
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Script Kiddies are new to hacking and at the same time do not have many interests in developing coding skills or find bugs of their own in systems; rather they prefer downloading of available tools (developed by elite hackers) and use them to break any system or network. They just try to gain attention of their friend circles.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suicide Hackers are those _____
((OPTION_A)) THIS IS MANDATORY OPTION	who break a system for some specific purpose with or without keeping in mind that they may suffer long term imprisonment due to their malicious activity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	individuals with no knowledge of codes but an expert in using hacking tools

((OPTION_C)) This is optional	who know the consequences of their hacking activities and hence try to prevent them by erasing their digital footprints
((OPTION_D)) This is optional	who are employed in an organization to do malicious activities on other firms
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Suicide hackers are those who break into any network or system with or without knowing the consequences of the cyber crime and its penalty. There are some suicide hackers who intentionally do crimes and get caught to bring their names in the headlines.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Criminal minded individuals who work for terrorist organizations and steal information of nations and other secret intelligence are _____
((OPTION_A)) THIS IS MANDATORY OPTION	State sponsored hackers
((OPTION_B)) THIS IS ALSO MANDATORY	Blue Hat Hackers

OPTION	
((OPTION_C)) This is optional	Cyber Terrorists
((OPTION_D)) This is optional	Red Hat Hackers
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Cyber Terrorists are very expert programmers and cyber criminals who hide themselves while doing malicious activities over the internet and they are smart enough to hide themselves or their tracks of action. They are hired for gaining unauthorised access to nation's data centres or break into the network of intelligence agencies.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are those individuals who maintain and handles IT security in any firm or organization.
((OPTION_A)) THIS IS MANDATORY OPTION	IT Security Engineer
((OPTION_B))	Cyber Security Interns

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Software Security Specialist
((OPTION_D)) This is optional	Security Auditor
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is an intermediary level of position of an individual in an organization or firm who builds and preserves different systems and its associated security tools of the firm of organization to which he/she belongs.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Role of security auditor is to _____
((OPTION_A)) THIS IS MANDATORY OPTION	secure the network

((OPTION_B)) THIS IS ALSO MANDATORY OPTION	probe for safety and security of organization's security components and systems
((OPTION_C)) This is optional	detects and prevents cyber attacks and threats to organization
((OPTION_D)) This is optional	does penetration testing on different web applications
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Security auditors are those who conduct auditing of various computer and network systems on an organization or company and reports the safety and security issues as well as helps in suggesting improvements or enhancements in any particular system that is threat prone.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are senior level corporate employees who have the role and responsibilities of creating and designing secured network or security structures.
((OPTION_A)) THIS IS MANDATORY	Ethical Hackers

OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Chief Technical Officer
((OPTION_C)) This is optional	IT Security Engineers
((OPTION_D)) This is optional	Security Architect
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Security architect are those senior grade employees of an organization who are in charge of building, designing, implementing and testing of secured network topologies, protocols as well as secured computers in an organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Governments hired some highly skilled hackers. These types of hackers are termed as _____
((OPTION_A)) THIS IS	Special Hackers

MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Government Hackers
((OPTION_C))  This is optional	Cyber Intelligence Agents
((OPTION_D))  This is optional	Nation / State sponsored hackers
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Nation / State sponsored hackers are specific individuals who are employed or hired by the government of that nation or state and protect the nation from cyber terrorists and other groups or individuals and to reveal their plans, communications and actions.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The full form of Malware is _____
((OPTION_A))	Malfunctioned Software

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Multipurpose Software
((OPTION_C))  This is optional	) Malicious Software
((OPTION_D))  This is optional	Malfunctioning of Security
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Different types of harmful software and programs that can pose threats to a system, network or anything related to cyberspace are termed as Malware. Examples of some common malware are Virus, Trojans, Ransomware, spyware, worms, rootkits etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who deploy Malwares to a system or network?

((OPTION_A)) THIS IS MANDATORY OPTION	Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Criminal organizations, gray hat hackers, Malware developers, Penetration testers
((OPTION_C)) This is optional	) Criminal organizations, Black hat hackers, software developers, cyber-terrorists
((OPTION_D)) This is optional	Criminal organizations, White hat hackers, malware developers, cyber-terrorists
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Criminal-minded organizations, groups and individuals cyber-terrorist groups, Black hat hackers, malware developers etc are those who can deploy malwares to any target system or network in order to deface that system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	_____ is a code injecting method used for attacking the database of a system / website.

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	HTML injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SQL Injection
((OPTION_C)) This is optional	Malicious code injection
((OPTION_D)) This is optional	XML Injection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	SQLi (Structured Query Language Injection) is a popular attack where SQL code is targeted or injected; for breaking the web application having SQL vulnerabilities. This allows the attacker to run malicious code and take access to the database of that server.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN	This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here?

CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	SQL injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	HTML Injection
((OPTION_C)) This is optional	Cross Site Scripting (XSS)
((OPTION_D)) This is optional	Cross Site Request Forgery (XSRF)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	XSS attack can be infused by putting the malicious code (which gets automatically run) in any comment section or feedback section of any webpage (usually a blogging page). This can hamper the reputation of a site and the attacker may place any private data or personal credentials.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cyber-crime
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cyber Attack
((OPTION_C)) This is optional	System hijacking
((OPTION_D)) This is optional	Digital crime
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cyber attack is an umbrella term used to classify different computer & network attacks or activities such as extortion, identity theft, email hacking, digital spying, stealing hardware, mobile hacking and physical security breaching.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a set of conventions & rules set for communicating two or more devices residing in the same network?
((OPTION_A))  THIS IS MANDATORY OPTION	Security policies
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Protocols
((OPTION_C))  This is optional	Wireless network
((OPTION_D))  This is optional	Network algorithms
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Network protocols are designed with mechanisms for identifying devices and make connections between them. In addition, some proper rules are defined as to how data packets will be sent and received.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The field that covers a variety of computer networks, both public and private, that are used in everyday jobs
((OPTION_A)) THIS IS MANDATORY OPTION	Artificial Intelligence
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ML
((OPTION_C)) This is optional	Network Security
((OPTION_D)) This is optional	IT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Network security covers a variety of computer networks, both private and public. Everyday jobs like conducting transactions and communications among business and government agencies etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network Security provides authentication and access control for resources.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is not an objective of network security?
((OPTION_A)) THIS IS MANDATORY OPTION	Identification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	Access control
((OPTION_D)) This is optional	Lock
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The Identification, Authentication and Access control are the objectives of network security. There is no such thing called lock.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is a part of network identification?
((OPTION_A)) THIS IS MANDATORY OPTION	UserID
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Password
((OPTION_C)) This is optional	OTP
((OPTION_D)) This is optional	fingerprint
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The answer is UserID. UserID is a part of identification. UserID can be a combination of username, user student number etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of verifying the identity of a user.
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Verification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	It is called an authentication. It is typically based on passwords, smart card, fingerprint, etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security features that control that can access resources in the OS
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Access control
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Access control refers to the security features. Applications call access control to provide resources

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm in encryption is called
((OPTION_A)) THIS IS MANDATORY OPTION	Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Procedure
((OPTION_C)) This is optional	Cipher
((OPTION_D)) This is optional	Module
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	An algorithm used in encryption is referred to as a cipher. cipher is an algorithm for performing encryption or decryption

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The information that gets transformed in encryption is
((OPTION_A)) THIS IS MANDATORY OPTION	Plain text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Parallel text
((OPTION_C)) This is optional	Encrypted text
((OPTION_D)) This is optional	Decrypted text
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The text that gets transformed is called plain text. The algorithm used is called cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The type of threats on the security of a computer system or network are..... i) Interruption ii) Interception iii) Modification iv) Creation v) Fabrication
((OPTION_A)) THIS IS MANDATORY OPTION	i, ii, iii and iv only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii, iii, iv and v only
((OPTION_C)) This is optional	i, ii, iii and v only
((OPTION_D)) This is optional	All i, ii, iii, iv and v
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is computer threat?
((OPTION_A))  THIS IS MANDATORY OPTION	Phishing
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Soliciting
((OPTION_C))  This is optional	DoS attack
((OPTION_D))  This is optional	stalking
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a term used in cryptography that refers to a message before encryption or after decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PLAIN TEXT
((OPTION_C)) This is optional	Original text
((OPTION_D)) This is optional	Plain script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ is encrypted text
((OPTION_A)) THIS IS MANDATORY OPTION	cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cipher script
((OPTION_C)) This is optional	secret text
((OPTION_D)) This is optional	secret script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An _____ along with a key is used in the encryption
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption algorithm
((OPTION_C)) This is optional	encryption algorithm
((OPTION_D)) This is optional	plain text algorithm
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that sensitive information are accessed only by an authorized person and kept away from those not authorized to possess them.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Cryptography
((OPTION_D)) This is optional	Integrity
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information are in a format that is true and correct to its original purposes.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	integrity
((OPTION_D)) This is optional	cryptography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information and resources are available to those who need them.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Availability</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Confidentiality</b>
((OPTION_C)) This is optional	<b>Cryptography</b>
((OPTION_D)) This is optional	<b>Integrity</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of identifying an individual, usually based on a username and password.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither authentication nor authorization</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of giving individuals access to system objects based on their identity.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither congestion control nor quality of service</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	when someone gains access to a server, website, or other sensitive data using someone else's account details called as
((OPTION_A)) THIS IS MANDATORY OPTION	Authorized access
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Access control
((OPTION_C)) This is optional	Unauthorized access
((OPTION_D)) This is optional	access
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Person who tries and exploits a computer system for a reason which can be money, a social cause, fun etc.called as
((OPTION_A)) THIS IS MANDATORY OPTION	Thief
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	hacker
((OPTION_C)) This is optional	attacker
((OPTION_D)) This is optional	criminal
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is an action or event that might compromise the security.
((OPTION_A))  THIS IS MANDATORY OPTION	Threat
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C))  This is optional	Protect
((OPTION_D))  This is optional	attack
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a weakness, a design problem or implementation error in a system that can lead to an unexpected and undesirable event regarding security system
((OPTION_A)) THIS IS MANDATORY OPTION	threat
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C)) This is optional	Attack
((OPTION_D)) This is optional	Protection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a software that operates on different OS which is used to prevent from malicious software.
((OPTION_A)) THIS IS MANDATORY OPTION	Anti virus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	virus
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	risk
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a technique that a hacker uses to stole data by a person for different purposes by psychological manipulation combined with social scenes.
((OPTION_A)) THIS IS MANDATORY OPTION	Social Engineering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IT engineering
((OPTION_C)) This is optional	Psycology
((OPTION_D)) This is optional	Social engineering
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is a software or hardware which is used to filter network traffic based on rules.
((OPTION_A)) THIS IS MANDATORY OPTION	antivirus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firewall
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	keylogger
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not Basic Functions of Antivirus Engines
((OPTION_A)) THIS IS MANDATORY OPTION	Scanning
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity Checking
((OPTION_C)) This is optional	Interception
((OPTION_D)) This is optional	Evesdropping
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is name of antivirus
((OPTION_A))  THIS IS MANDATORY OPTION	AVG
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	PAN
((OPTION_C))  This is optional	SACK
((OPTION_D))  This is optional	FIREP
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hacking tools that can be found very easily by everyone just by googling and they are endless.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Potential Losses due to Security Attacks doesn't involve _____
((OPTION_A)) THIS IS MANDATORY OPTION	Losing your data
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Bad usage of your computer resources
((OPTION_C)) This is optional	Reputation gain
((OPTION_D)) This is optional	Identity theft
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Reputation loss is part of it and not gain

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not malware category?
((OPTION_A))  THIS IS MANDATORY OPTION	Worms
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Viruses
((OPTION_C))  This is optional	Trojans
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	All are malware categories

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ encrypts all your data when your computer gets infected and the second is to roll back the data at a specific time you want.
((OPTION_A)) THIS IS MANDATORY OPTION	ransomware
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firmware
((OPTION_C)) This is optional	middleware
((OPTION_D)) This is optional	Cyber ware
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	this network is created between two secure network devices like two firewalls.
((OPTION_A)) THIS IS MANDATORY OPTION	LAN
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAN
((OPTION_C)) This is optional	VPN
((OPTION_D)) This is optional	WAN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Virtual private network

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Name of the attack when integrity is compromised is called as _____
((OPTION_A))  THIS IS MANDATORY OPTION	Fabrication
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	interception
((OPTION_C))  This is optional	Interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack made on confidentiality is __
((OPTION_A))  THIS IS MANDATORY OPTION	interception
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C))  This is optional	interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	an attack on availability such as a denial of service attack (or DOS)
((OPTION_A))  THIS IS MANDATORY OPTION	Interruption
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Interception
((OPTION_C))  This is optional	fabrication
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An unauthorized party inserts counterfeit objects into the system and basically attacks the authenticity of the system.
((OPTION_A)) THIS IS MANDATORY OPTION	modification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	interruption
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack in which a network service is made degraded or unavailable for legitimate use
((OPTION_A)) THIS IS MANDATORY OPTION	Interruption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is assurance that someone cannot deny something.
((OPTION_A))  THIS IS MANDATORY OPTION	availability
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	confidentiality
((OPTION_C))  This is optional	Access control
((OPTION_D))  This is optional	Non-repudiation
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the purpose of a Denial of Service attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Exploit a weakness in the TCP/IP stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	To execute a Trojan on a system
((OPTION_C))  This is optional	To overload a system so it is no longer operational
((OPTION_D))  This is optional	To shutdown services by turning them off
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	DoS attacks force systems to stop responding by overloading the processing of the system

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What are some of the most common vulnerabilities that exist in a network or system?
((OPTION_A)) THIS IS MANDATORY OPTION	Changing manufacturer, or recommended, settings of a newly installed application.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additional unused features on commercial software packages
((OPTION_C)) This is optional	Utilizing open source application code
((OPTION_D)) This is optional	Balancing security concerns with functionality and ease of use of a system.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Linux is an open source code and considered to have greater security than the commercial Windows environment

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Sniffing is used to perform _____ fingerprinting
((OPTION_A))  THIS IS MANDATORY OPTION	Passive stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active stack
((OPTION_C))  This is optional	Passive banner grabbing
((OPTION_D))  This is optional	Scanned
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Passive stack fingerprinting uses sniffing technologies instead of scanning

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a principle of data security?
((OPTION_A)) THIS IS MANDATORY OPTION	Data Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following attacks is a passive attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Masquerade
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Modification of message
((OPTION_C))  This is optional	Denial of service
((OPTION_D))  This is optional	Traffic analysis
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	In a passive attack, the attacker does not modify any part of the data. His attempt is only to obtain the information and not to modify it. From the mentioned options, this happens only in Traffic analysis in which the attacker monitors the pattern of transmission. The rest other options are examples of active attacks.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options correctly defines the Brute force attack?
((OPTION_A)) THIS IS MANDATORY OPTION	Brutally forcing the user to share the useful information like pins and passwords.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Trying every possible key to decrypt the message.
((OPTION_C)) This is optional	One entity pretends to be some other entity
((OPTION_D)) This is optional	The message or information is modified before sending it to the receiver.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"A key is a string of bits used by a cryptographic algorithm to transform plain text into ciphertext." Which of the following is capable of becoming a key in a cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	Integer value
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Square matrix
((OPTION_C)) This is optional	An array of characters
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	measures taken by any enterprise or organisation to secure its computer network and data using both hardware and software systems is called as
((OPTION_A)) THIS IS MANDATORY OPTION	Network security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Information security
((OPTION_C)) This is optional	Cyber security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	phishing and pre-texting is part of _____
((OPTION_A)) THIS IS MANDATORY OPTION	<b>NETWORK SECURITY</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>CYBER SECURITY</b>
((OPTION_C)) This is optional	Internet security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures to protect the transit data only.
((OPTION_A)) THIS IS MANDATORY OPTION	NETWORK SECURITY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet security
((OPTION_C)) This is optional	Information security
((OPTION_D)) This is optional	Cyber security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is danger for <b>Integrity</b> as well as <b>availability</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is danger for <b>Confidentiality</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ attack attention is on detection.
((OPTION_A))  THIS IS MANDATORY OPTION	Passive attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active Attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ attack attention is on prevention.
((OPTION_A))  THIS IS MANDATORY OPTION	Active attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Due to ___ attack system is always damaged.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	Both active and passive
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	due to _____ attack, there is no any harm to the system.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack is tough to restrict from entering systems or networks.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Attack is easy to prohibited in comparison to _____ attack.
((OPTION_A))  THIS IS MANDATORY OPTION	Active,passive
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive,active
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not active attack
((OPTION_A)) THIS IS MANDATORY OPTION	Denial of service (DoS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	replay
((OPTION_C)) This is optional	Trojans
((OPTION_D)) This is optional	traffic analysis
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In __ <b>attack</b> , an attacker tries to modify the content of the messages.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ <b>attack</b> , an attacker observes the messages, copy them and may use them for malicious purposes
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is state of being free from potential threats or dangers
((OPTION_A)) THIS IS MANDATORY OPTION	privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	freedom
((OPTION_C)) This is optional	security
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ refers to the state of being free from unwanted attention.
((OPTION_A)) THIS IS MANDATORY OPTION	Freedom
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Privacy
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ can be achieved without _____ but _____ cannot be achieved without _____.
((OPTION_A)) THIS IS MANDATORY OPTION	Security,privacy,privacy security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy,security,security,privacy
((OPTION_C)) This is optional	Security,privacy,privacy,privacy
((OPTION_D)) This is optional	Security,security,privacy,security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program refers to a set of protocols and regulations set in place to protect all the confidential information assets and resources that an organization collects and owns.
((OPTION_A)) THIS IS MANDATORY OPTION	Privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program focuses on protecting only personal information such as log in credentials, passwords, etc.
((OPTION_A)) THIS IS MANDATORY OPTION	Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a threat to information security?
((OPTION_A)) THIS IS MANDATORY OPTION	Disaster
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Eavesdropping
((OPTION_C)) This is optional	Information leakage
((OPTION_D)) This is optional	Unchanged default password
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Disaster, eavesdropping and information leakage come under information security threats whereas not changing the default password of any system, hardware or any software comes under the category of vulnerabilities that the user may pose to its system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compromising confidential information comes under
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	Threats are anything that may cause damage or harm to a computer system, individual or any information. Compromising of confidential information means extracting out sensitive data from a system by illegal manner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Lack of access control policy is a
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Access control policies are incorporated to a security system for restricting of unauthorised access to any logical or physical system. Every security compliance program must need this as a fundamental component. Those systems which lack this feature is vulnerable.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Possible threat to any information cannot be
((OPTION_A)) THIS IS MANDATORY OPTION	reduced
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transferred
((OPTION_C)) This is optional	protected
((OPTION_D)) This is optional	ignored
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	When there lies a threat to any system, safeguards can be implemented, outsourced, distributed or transferred to some other system, protected using security tools and techniques but cannot be ignored.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?
((OPTION_A))  THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))  This is optional	Authenticity
((OPTION_D))  This is optional	Availability
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	According to the CIA triad the three components that a security need is the Confidentiality, Integrity, Availability (as in short read as

		
CIA).		

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When you use the word _____ it means you are protecting your data from getting disclosed.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	

((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Confidentiality is what every individual prefer in terms of physical privacy as well as digital privacy. This term means our information needs to be protected from getting disclose to unauthorised parties, for which we use different security mechanisms like password protection, biometric security, OTPs (One Time Passwords) etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ means the protection of data from modification by unknown users.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Non-repudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	A information only seems valuable if it is correct and do not get modified during its journey in the course of arrival. The element integrity makes sure that the data sent or generated from other end is correct and is not modified by any unauthorised party in between.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When integrity is lacking in a security system, _____ occurs.
((OPTION_A)) THIS IS MANDATORY OPTION	Database hacking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data deletion
((OPTION_C)) This is optional	Data tampering
((OPTION_D)) This is optional	Data leakage
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The term data tampering is used when integrity is compromised in any security model and checking its integrity later becomes costlier. Example: let suppose you sent \$50 to an authorised person and in between a Man in the Middle (MiTM) attack takes place and the value has tampered to \$500. This is how integrity is compromised.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	of information means, only authorised users are capable of accessing the information.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional.	

If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Information seems useful only when right people (authorised users) access it after going through proper authenticity check. The key element availability ensures that only authorised users are able to access the information.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
((OPTION_A)) THIS IS MANDATORY OPTION	They help understanding hacking better
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	They are key elements to a security breach
((OPTION_C)) This is optional	They help understands security and its components better
((OPTION_D)) This is optional	They help to understand the cyber-crime better
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The four elements of security viz. confidentiality, integrity, authenticity & availability helps in better understanding the pillars of security and its different components.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This helps in identifying the origin of information and authentic user. This referred to here as
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The key element, authenticity helps in assuring the fact that the information is from the original source.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data _____ is used to ensure confidentiality.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Locking
((OPTION_C)) This is optional	Deleting
((OPTION_D)) This is optional	Backup
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Data encryption is the method of converting plain text to cipher-text and only authorised users can decrypt the message back to plain text. This preserves the confidentiality of data

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is not a proper method of maintaining AUTHENTICATION?
((OPTION_A)) THIS IS MANDATORY OPTION	Biometric verification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ID and password based verification
((OPTION_C)) This is optional	2-factor authentication
((OPTION_D)) This is optional	switching off the phone
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Switching off the phone in the fear of preserving the confidentiality of data is not a proper solution for data confidentiality. Fingerprint detection, face recognition, password-based authentication, two-step verifications are some of these.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data integrity gets compromised when _____ and _____ are taken control off.
((OPTION_A)) THIS IS MANDATORY OPTION	Access control, file deletion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Network, file permission
((OPTION_C)) This is optional	Access control, file permission
((OPTION_D)) This is optional	Network, system

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The two key ingredients that need to be kept safe are: access control & file permission in order to preserve data integrity.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One common way to maintain data availability is
((OPTION_A)) THIS IS MANDATORY OPTION	Data clustering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data backup
((OPTION_C)) This is optional	Data recovery
((OPTION_D)) This is optional	Data Altering

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	For preventing data from data-loss, or damage data backup can be done and stored in a different geographical location so that it can sustain its data from natural disasters & unpredictable events.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hackers who help in finding bugs and vulnerabilities in a system & don't intend to crack a system are termed as
((OPTION_A)) THIS IS MANDATORY OPTION	Black Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Grey Hat Hackers
((OPTION_D)) This is optional	Red Hat Hackers

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	White Hat Hackers are cyber security analysts and consultants who have the intent to help firms and Governments in the identification of loopholes as well as help to perform penetration tests for securing a system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the legal form of hacking based on which jobs are provided in IT industries and firms?
((OPTION_A)) THIS IS MANDATORY OPTION	Cracking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Non ethical Hacking
((OPTION_C)) This is optional	Ethical hacking
((OPTION_D))	Hactivism

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Ethical Hacking is an ethical form of hacking done by white-hat hackers for performing penetration tests and identifying potential threats in any organizations and firms.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	They are nefarious hackers, and their main motive is to gain financial profit by doing cyber crimes. Who are "they" referred to here?
((OPTION_A)) THIS IS MANDATORY OPTION	Gray Hat Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Hactivists
((OPTION_D))	Black Hat Hackers

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Black Hat hackers also termed as 'crackers' and are a major type of cyber criminals who take unauthorized access in user's account or system and steal sensitive data or inject malware into the system for their profit or to harm the organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are the combination of both white as well as black hat hackers.
((OPTION_A)) THIS IS MANDATORY OPTION	Grey Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Green Hat hackers
((OPTION_C)) This is optional	Blue Hat Hackers

((OPTION_D)) This is optional	Red Hat Hacker
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Grey Hat Hackers have a blending character of both ethical as well as un-ethical hacker. They hack other's systems for fun but do not harm the system, exploits bugs and vulnerabilities in network without the knowledge of the admin or the owner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The amateur or newbie in the field of hacking who don't have many skills about coding and in-depth working of security and hacking tools are called _____
((OPTION_A)) THIS IS MANDATORY OPTION	Sponsored Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hactivists
((OPTION_C))	Script Kiddies

This is optional	
((OPTION_D))	Whistle Blowers
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Script Kiddies are new to hacking and at the same time do not have many interests in developing coding skills or find bugs of their own in systems; rather they prefer downloading of available tools (developed by elite hackers) and use them to break any system or network. They just try to gain attention of their friend circles.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suicide Hackers are those _____
((OPTION_A)) THIS IS MANDATORY OPTION	who break a system for some specific purpose with or without keeping in mind that they may suffer long term imprisonment due to their malicious activity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	individuals with no knowledge of codes but an expert in using hacking tools

((OPTION_C)) This is optional	who know the consequences of their hacking activities and hence try to prevent them by erasing their digital footprints
((OPTION_D)) This is optional	who are employed in an organization to do malicious activities on other firms
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Suicide hackers are those who break into any network or system with or without knowing the consequences of the cyber crime and its penalty. There are some suicide hackers who intentionally do crimes and get caught to bring their names in the headlines.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Criminal minded individuals who work for terrorist organizations and steal information of nations and other secret intelligence are _____
((OPTION_A)) THIS IS MANDATORY OPTION	State sponsored hackers
((OPTION_B)) THIS IS ALSO MANDATORY	Blue Hat Hackers

OPTION	
((OPTION_C)) This is optional	Cyber Terrorists
((OPTION_D)) This is optional	Red Hat Hackers
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Cyber Terrorists are very expert programmers and cyber criminals who hide themselves while doing malicious activities over the internet and they are smart enough to hide themselves or their tracks of action. They are hired for gaining unauthorised access to nation's data centres or break into the network of intelligence agencies.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are those individuals who maintain and handles IT security in any firm or organization.
((OPTION_A)) THIS IS MANDATORY OPTION	IT Security Engineer
((OPTION_B))	Cyber Security Interns

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Software Security Specialist
((OPTION_D)) This is optional	Security Auditor
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is an intermediary level of position of an individual in an organization or firm who builds and preserves different systems and its associated security tools of the firm of organization to which he/she belongs.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Role of security auditor is to _____
((OPTION_A)) THIS IS MANDATORY OPTION	secure the network

((OPTION_B)) THIS IS ALSO MANDATORY OPTION	probe for safety and security of organization's security components and systems
((OPTION_C)) This is optional	detects and prevents cyber attacks and threats to organization
((OPTION_D)) This is optional	does penetration testing on different web applications
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Security auditors are those who conduct auditing of various computer and network systems on an organization or company and reports the safety and security issues as well as helps in suggesting improvements or enhancements in any particular system that is threat prone.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are senior level corporate employees who have the role and responsibilities of creating and designing secured network or security structures.
((OPTION_A)) THIS IS MANDATORY	Ethical Hackers

OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Chief Technical Officer
((OPTION_C)) This is optional	IT Security Engineers
((OPTION_D)) This is optional	Security Architect
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Security architect are those senior grade employees of an organization who are in charge of building, designing, implementing and testing of secured network topologies, protocols as well as secured computers in an organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Governments hired some highly skilled hackers. These types of hackers are termed as _____
((OPTION_A)) THIS IS	Special Hackers

MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Government Hackers
((OPTION_C))  This is optional	Cyber Intelligence Agents
((OPTION_D))  This is optional	Nation / State sponsored hackers
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Nation / State sponsored hackers are specific individuals who are employed or hired by the government of that nation or state and protect the nation from cyber terrorists and other groups or individuals and to reveal their plans, communications and actions.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The full form of Malware is _____
((OPTION_A))	Malfunctioned Software

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Multipurpose Software
((OPTION_C))  This is optional	) Malicious Software
((OPTION_D))  This is optional	Malfunctioning of Security
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Different types of harmful software and programs that can pose threats to a system, network or anything related to cyberspace are termed as Malware. Examples of some common malware are Virus, Trojans, Ransomware, spyware, worms, rootkits etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who deploy Malwares to a system or network?

((OPTION_A)) THIS IS MANDATORY OPTION	Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Criminal organizations, gray hat hackers, Malware developers, Penetration testers
((OPTION_C)) This is optional	) Criminal organizations, Black hat hackers, software developers, cyber-terrorists
((OPTION_D)) This is optional	Criminal organizations, White hat hackers, malware developers, cyber-terrorists
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Criminal-minded organizations, groups and individuals cyber-terrorist groups, Black hat hackers, malware developers etc are those who can deploy malwares to any target system or network in order to deface that system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	_____ is a code injecting method used for attacking the database of a system / website.

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	HTML injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SQL Injection
((OPTION_C)) This is optional	Malicious code injection
((OPTION_D)) This is optional	XML Injection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	SQLi (Structured Query Language Injection) is a popular attack where SQL code is targeted or injected; for breaking the web application having SQL vulnerabilities. This allows the attacker to run malicious code and take access to the database of that server.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN	This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here?

CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	SQL injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	HTML Injection
((OPTION_C)) This is optional	Cross Site Scripting (XSS)
((OPTION_D)) This is optional	Cross Site Request Forgery (XSRF)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	XSS attack can be infused by putting the malicious code (which gets automatically run) in any comment section or feedback section of any webpage (usually a blogging page). This can hamper the reputation of a site and the attacker may place any private data or personal credentials.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cyber-crime
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cyber Attack
((OPTION_C)) This is optional	System hijacking
((OPTION_D)) This is optional	Digital crime
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cyber attack is an umbrella term used to classify different computer & network attacks or activities such as extortion, identity theft, email hacking, digital spying, stealing hardware, mobile hacking and physical security breaching.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a set of conventions & rules set for communicating two or more devices residing in the same network?
((OPTION_A))  THIS IS MANDATORY OPTION	Security policies
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Protocols
((OPTION_C))  This is optional	Wireless network
((OPTION_D))  This is optional	Network algorithms
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Network protocols are designed with mechanisms for identifying devices and make connections between them. In addition, some proper rules are defined as to how data packets will be sent and received.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The field that covers a variety of computer networks, both public and private, that are used in everyday jobs
((OPTION_A)) THIS IS MANDATORY OPTION	Artificial Intelligence
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ML
((OPTION_C)) This is optional	Network Security
((OPTION_D)) This is optional	IT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Network security covers a variety of computer networks, both private and public. Everyday jobs like conducting transactions and communications among business and government agencies etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network Security provides authentication and access control for resources.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is not an objective of network security?
((OPTION_A)) THIS IS MANDATORY OPTION	Identification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	Access control
((OPTION_D)) This is optional	Lock
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The Identification, Authentication and Access control are the objectives of network security. There is no such thing called lock.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is a part of network identification?
((OPTION_A)) THIS IS MANDATORY OPTION	UserID
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Password
((OPTION_C)) This is optional	OTP
((OPTION_D)) This is optional	fingerprint
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The answer is UserID. UserID is a part of identification. UserID can be a combination of username, user student number etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of verifying the identity of a user.
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Verification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	It is called an authentication. It is typically based on passwords, smart card, fingerprint, etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security features that control that can access resources in the OS
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Access control
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Access control refers to the security features. Applications call access control to provide resources

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm in encryption is called
((OPTION_A)) THIS IS MANDATORY OPTION	Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Procedure
((OPTION_C)) This is optional	Cipher
((OPTION_D)) This is optional	Module
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	An algorithm used in encryption is referred to as a cipher. cipher is an algorithm for performing encryption or decryption

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The information that gets transformed in encryption is
((OPTION_A)) THIS IS MANDATORY OPTION	Plain text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Parallel text
((OPTION_C)) This is optional	Encrypted text
((OPTION_D)) This is optional	Decrypted text
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The text that gets transformed is called plain text. The algorithm used is called cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The type of threats on the security of a computer system or network are..... i) Interruption ii) Interception iii) Modification iv) Creation v) Fabrication
((OPTION_A)) THIS IS MANDATORY OPTION	i, ii, iii and iv only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii, iii, iv and v only
((OPTION_C)) This is optional	i, ii, iii and v only
((OPTION_D)) This is optional	All i, ii, iii, iv and v
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is computer threat?
((OPTION_A))  THIS IS MANDATORY OPTION	Phishing
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Soliciting
((OPTION_C))  This is optional	DoS attack
((OPTION_D))  This is optional	stalking
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a term used in cryptography that refers to a message before encryption or after decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PLAIN TEXT
((OPTION_C)) This is optional	Original text
((OPTION_D)) This is optional	Plain script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ is encrypted text
((OPTION_A)) THIS IS MANDATORY OPTION	cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cipher script
((OPTION_C)) This is optional	secret text
((OPTION_D)) This is optional	secret script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An _____ along with a key is used in the encryption
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption algorithm
((OPTION_C)) This is optional	encryption algorithm
((OPTION_D)) This is optional	plain text algorithm
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that sensitive information are accessed only by an authorized person and kept away from those not authorized to possess them.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Cryptography
((OPTION_D)) This is optional	Integrity
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information are in a format that is true and correct to its original purposes.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	integrity
((OPTION_D)) This is optional	cryptography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information and resources are available to those who need them.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Availability</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Confidentiality</b>
((OPTION_C)) This is optional	<b>Cryptography</b>
((OPTION_D)) This is optional	<b>Integrity</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of identifying an individual, usually based on a username and password.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither authentication nor authorization</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of giving individuals access to system objects based on their identity.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither congestion control nor quality of service</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	when someone gains access to a server, website, or other sensitive data using someone else's account details called as
((OPTION_A)) THIS IS MANDATORY OPTION	Authorized access
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Access control
((OPTION_C)) This is optional	Unauthorized access
((OPTION_D)) This is optional	access
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Person who tries and exploits a computer system for a reason which can be money, a social cause, fun etc.called as
((OPTION_A)) THIS IS MANDATORY OPTION	Thief
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	hacker
((OPTION_C)) This is optional	attacker
((OPTION_D)) This is optional	criminal
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is an action or event that might compromise the security.
((OPTION_A))  THIS IS MANDATORY OPTION	Threat
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C))  This is optional	Protect
((OPTION_D))  This is optional	attack
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a weakness, a design problem or implementation error in a system that can lead to an unexpected and undesirable event regarding security system
((OPTION_A)) THIS IS MANDATORY OPTION	threat
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C)) This is optional	Attack
((OPTION_D)) This is optional	Protection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a software that operates on different OS which is used to prevent from malicious software.
((OPTION_A)) THIS IS MANDATORY OPTION	Anti virus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	virus
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	risk
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a technique that a hacker uses to stole data by a person for different purposes by psychological manipulation combined with social scenes.
((OPTION_A)) THIS IS MANDATORY OPTION	Social Engineering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IT engineering
((OPTION_C)) This is optional	Psycology
((OPTION_D)) This is optional	Social engineering
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is a software or hardware which is used to filter network traffic based on rules.
((OPTION_A)) THIS IS MANDATORY OPTION	antivirus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firewall
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	keylogger
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not Basic Functions of Antivirus Engines
((OPTION_A)) THIS IS MANDATORY OPTION	Scanning
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity Checking
((OPTION_C)) This is optional	Interception
((OPTION_D)) This is optional	Evesdropping
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is name of antivirus
((OPTION_A))  THIS IS MANDATORY OPTION	AVG
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	PAN
((OPTION_C))  This is optional	SACK
((OPTION_D))  This is optional	FIREP
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hacking tools that can be found very easily by everyone just by googling and they are endless.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Potential Losses due to Security Attacks doesn't involve _____
((OPTION_A)) THIS IS MANDATORY OPTION	Losing your data
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Bad usage of your computer resources
((OPTION_C)) This is optional	Reputation gain
((OPTION_D)) This is optional	Identity theft
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Reputation loss is part of it and not gain

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not malware category?
((OPTION_A))  THIS IS MANDATORY OPTION	Worms
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Viruses
((OPTION_C))  This is optional	Trojans
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	All are malware categories

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ encrypts all your data when your computer gets infected and the second is to roll back the data at a specific time you want.
((OPTION_A)) THIS IS MANDATORY OPTION	ransomware
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firmware
((OPTION_C)) This is optional	middleware
((OPTION_D)) This is optional	Cyber ware
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	this network is created between two secure network devices like two firewalls.
((OPTION_A)) THIS IS MANDATORY OPTION	LAN
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAN
((OPTION_C)) This is optional	VPN
((OPTION_D)) This is optional	WAN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Virtual private network

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Name of the attack when integrity is compromised is called as _____
((OPTION_A))  THIS IS MANDATORY OPTION	Fabrication
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	interception
((OPTION_C))  This is optional	Interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack made on confidentiality is __
((OPTION_A))  THIS IS MANDATORY OPTION	interception
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C))  This is optional	interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	an attack on availability such as a denial of service attack (or DOS)
((OPTION_A))  THIS IS MANDATORY OPTION	Interruption
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Interception
((OPTION_C))  This is optional	fabrication
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An unauthorized party inserts counterfeit objects into the system and basically attacks the authenticity of the system.
((OPTION_A)) THIS IS MANDATORY OPTION	modification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	interruption
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack in which a network service is made degraded or unavailable for legitimate use
((OPTION_A)) THIS IS MANDATORY OPTION	Interruption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is assurance that someone cannot deny something.
((OPTION_A))  THIS IS MANDATORY OPTION	availability
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	confidentiality
((OPTION_C))  This is optional	Access control
((OPTION_D))  This is optional	Non-repudiation
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the purpose of a Denial of Service attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Exploit a weakness in the TCP/IP stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	To execute a Trojan on a system
((OPTION_C))  This is optional	To overload a system so it is no longer operational
((OPTION_D))  This is optional	To shutdown services by turning them off
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	DoS attacks force systems to stop responding by overloading the processing of the system

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What are some of the most common vulnerabilities that exist in a network or system?
((OPTION_A)) THIS IS MANDATORY OPTION	Changing manufacturer, or recommended, settings of a newly installed application.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additional unused features on commercial software packages
((OPTION_C)) This is optional	Utilizing open source application code
((OPTION_D)) This is optional	Balancing security concerns with functionality and ease of use of a system.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Linux is an open source code and considered to have greater security than the commercial Windows environment

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Sniffing is used to perform _____ fingerprinting
((OPTION_A))  THIS IS MANDATORY OPTION	Passive stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active stack
((OPTION_C))  This is optional	Passive banner grabbing
((OPTION_D))  This is optional	Scanned
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Passive stack fingerprinting uses sniffing technologies instead of scanning

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a principle of data security?
((OPTION_A)) THIS IS MANDATORY OPTION	Data Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following attacks is a passive attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Masquerade
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Modification of message
((OPTION_C))  This is optional	Denial of service
((OPTION_D))  This is optional	Traffic analysis
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	In a passive attack, the attacker does not modify any part of the data. His attempt is only to obtain the information and not to modify it. From the mentioned options, this happens only in Traffic analysis in which the attacker monitors the pattern of transmission. The rest other options are examples of active attacks.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options correctly defines the Brute force attack?
((OPTION_A)) THIS IS MANDATORY OPTION	Brutally forcing the user to share the useful information like pins and passwords.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Trying every possible key to decrypt the message.
((OPTION_C)) This is optional	One entity pretends to be some other entity
((OPTION_D)) This is optional	The message or information is modified before sending it to the receiver.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"A key is a string of bits used by a cryptographic algorithm to transform plain text into ciphertext." Which of the following is capable of becoming a key in a cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	Integer value
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Square matrix
((OPTION_C)) This is optional	An array of characters
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	measures taken by any enterprise or organisation to secure its computer network and data using both hardware and software systems is called as
((OPTION_A)) THIS IS MANDATORY OPTION	Network security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Information security
((OPTION_C)) This is optional	Cyber security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	phishing and pre-texting is part of _____
((OPTION_A)) THIS IS MANDATORY OPTION	<b>NETWORK SECURITY</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>CYBER SECURITY</b>
((OPTION_C)) This is optional	Internet security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures to protect the transit data only.
((OPTION_A)) THIS IS MANDATORY OPTION	NETWORK SECURITY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet security
((OPTION_C)) This is optional	Information security
((OPTION_D)) This is optional	Cyber security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is danger for <b>Integrity</b> as well as <b>availability</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is danger for <b>Confidentiality</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ attack attention is on detection.
((OPTION_A))  THIS IS MANDATORY OPTION	Passive attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active Attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ attack attention is on prevention.
((OPTION_A))  THIS IS MANDATORY OPTION	Active attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Due to ___ attack system is always damaged.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	Both active and passive
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	due to _____ attack, there is no any harm to the system.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack is tough to restrict from entering systems or networks.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Attack is easy to prohibited in comparison to _____ attack.
((OPTION_A))  THIS IS MANDATORY OPTION	Active,passive
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive,active
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not active attack
((OPTION_A)) THIS IS MANDATORY OPTION	Denial of service (DoS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	replay
((OPTION_C)) This is optional	Trojans
((OPTION_D)) This is optional	traffic analysis
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In __ <b>attack</b> , an attacker tries to modify the content of the messages.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ <b>attack</b> , an attacker observes the messages, copy them and may use them for malicious purposes
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is state of being free from potential threats or dangers
((OPTION_A)) THIS IS MANDATORY OPTION	privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	freedom
((OPTION_C)) This is optional	security
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ refers to the state of being free from unwanted attention.
((OPTION_A)) THIS IS MANDATORY OPTION	Freedom
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Privacy
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ can be achieved without _____ but _____ cannot be achieved without _____.
((OPTION_A)) THIS IS MANDATORY OPTION	Security,privacy,privacy security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy,security,security,privacy
((OPTION_C)) This is optional	Security,privacy,privacy,privacy
((OPTION_D)) This is optional	Security,security,privacy,security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program refers to a set of protocols and regulations set in place to protect all the confidential information assets and resources that an organization collects and owns.
((OPTION_A)) THIS IS MANDATORY OPTION	Privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program focuses on protecting only personal information such as log in credentials, passwords, etc.
((OPTION_A)) THIS IS MANDATORY OPTION	Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following Algorithms does not belong to symmetric encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	3DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	RC5
((OPTION_D)) This is optional	IDEA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Assymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?
((OPTION_A)) THIS IS MANDATORY OPTION	Not true, the message can also be decrypted with the Public Key.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A so called "one way function with back door" is applied for the encryption
((OPTION_C)) This is optional	The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.
((OPTION_D)) This is optional	The encrypted message contains the function for decryption which identifies the Private Key.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	An one-way function is a function which a computer can calculate quickly, but whose reversal would last months or years. An one-way function with back door can be reversed with the help of a couple of additional information (the back door), but scarcely

	without this information. The information for the back door is contained in the private Key.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the largest disadvantage of the symmetric Encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	More complex and therefore more time-consuming calculations.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Problem of the secure transmission of the Secret Key
((OPTION_C)) This is optional	Less secure encryption function.
((OPTION_D)) This is optional	Isn't used any more
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION))	As there is only one key in the symmetrical encryption, this must

)) This is also optional	be known by both sender and recipient and this key is sufficient to decrypt the secret message. Therefore it must be exchanged between sender and receiver in such a manner that an unauthorized person can in no case take possession of it.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the principle of the encryption using a key?
((OPTION_A)) THIS IS MANDATORY OPTION	The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	The key contains the secret function for encryption including parameters. Only a password can activate the key.
((OPTION_C)) This is optional	All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.
((OPTION_D)) This is optional	The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	C

E	
((EXPLANATION)) This is also optional	The encoding of a message is calculated by an algorithm. If always the same algorithm would be used, it would be easy to crack intercepted messages. However, it isn't possible to invent a new algorithm whenever the old one was cracked, therefor the possibility to parameterize algorithms is needed and this is the assignment of the key. All algorithms must be public, only the keys are secret (principle of Kerckhoff, Dutch cryptographer during 19th century).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If the sender and receiver use different keys, the system is referred to as conventional cipher system
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Such a system is called asymmetric, two-key, or public-key cipher system

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Use Caesar's Cipher to decipher the following HQFUBSWHG WHAW
((OPTION_A)) THIS IS MANDATORY OPTION	ABANDONED LOCK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ENCRYPTED TEXT
((OPTION_C)) This is optional	ABANDONED TEXT
((OPTION_D)) This is optional	ENCRYPTED LOCK
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher uses $C = (p+3) \text{ mod } 26$ to encrypt.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Caesar Cipher is an example of
((OPTION_A)) THIS IS MANDATORY OPTION	Poly-alphabetic Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Mono-alphabetic Cipher
((OPTION_C)) This is optional	Multi-alphabetic Cipher
((OPTION_D)) This is optional	Bi-alphabetic Cipher
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher is an example of Mono-alphabetic cipher, as single alphabets are encrypted or decrypted at a time.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Monoalphabetic ciphers are easier to break because they reflect the frequency of the original alphabet.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis
((OPTION_A)) THIS IS MANDATORY OPTION	Random Polyalphabetic, Plaintext, Playfair
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Random Polyalphabetic, Playfair, Vignere
((OPTION_C)) This is optional	Random Polyalphabetic, Vignere, Playfair, Plaintext
((OPTION_D)) This is optional	Random Polyalphabetic, Plaintext, Beaufort, Playfair
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Random Polyalphabetic is the most resistant to frequency analysis, followed by Vignere, Playfair and then Plaintext.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-
((OPTION_A)) THIS IS MANDATORY OPTION	abqdnnewuwjphfvrrtrfznsdokvl
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	abqdmwwuwjphfvyyrfznydokvl
((OPTION_C)) This is optional	tbqyrvmwuwjphfvyyrfznydokvl
((OPTION_D)) This is optional	baiuvmwuwjphfoeiyrfznydokvl
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	nlazeiiblji
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nlazeiiblji
((OPTION_C)) This is optional	olaaeiiblki
((OPTION_D)) This is optional	mlaaeiibljk
((OPTION_E)) This is optional. If optional keep empty so that	

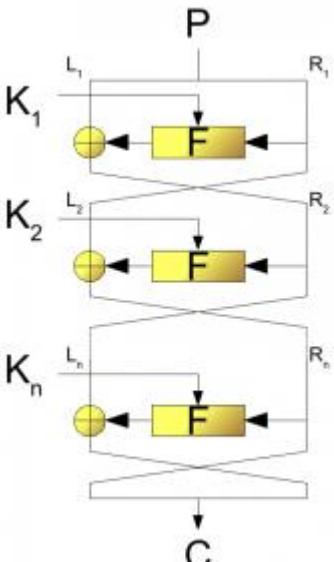
system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m$ (mod 26).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Confusion hides the relationship between the ciphertext and the plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Confusion hides the relationship between the ciphertext and the key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The S-Box is used to provide confusion, as it is dependent on the unknown key.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	false
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The S-Box is used to provide confusion, as it is dependent on the unknown key. The P-Box is fixed, and there is no confusion due to it, but it provides diffusion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This is an example of 
((OPTION_A)) THIS IS MANDATORY OPTION	SP Networks
((OPTION_B)) THIS IS ALSO MANDATORY	Feistel Cipher

OPTION	
((OPTION_C)) This is optional	Hash Algorithm
((OPTION_D)) This is optional	Hill Cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following slows the cryptographic algorithm – 1) Increase in Number of rounds 2) Decrease in Block size 3) Decrease in Key Size 4) Increase in Sub key Generation
((OPTION_A)) THIS IS MANDATORY OPTION	1 and 3
((OPTION_B)) THIS IS ALSO MANDATORY	2 and 3

OPTION	
((OPTION_C)) This is optional	3 and 4
((OPTION_D)) This is optional	2 and 4
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Increase in any of the above 4 leads to slowing of the cipher algorithm i.e. more computational time will be required.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES follows
((OPTION_A)) THIS IS MANDATORY OPTION	Hash Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY	Caesars Cipher

OPTION	
((OPTION_C)) This is optional	Feistel Cipher Structure
((OPTION_D)) This is optional	SP Network
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES Algorithm Cipher System consists of _____ rounds (iterations) each with a round key
((OPTION_A)) THIS IS MANDATORY OPTION	12
((OPTION_B)) THIS IS ALSO MANDATORY	18

OPTION	
((OPTION_C)) This is optional	9
((OPTION_D)) This is optional	16
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The DES Algorithm Cipher System consists of 16 rounds (iterations) each with a round key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES algorithm has a key length of
((OPTION_A)) THIS IS MANDATORY OPTION	128 Bits
((OPTION_B)) THIS IS ALSO MANDATORY	32 Bits

OPTION	
((OPTION_C)) This is optional	64 Bits
((OPTION_D)) This is optional	16 Bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	56 bits are used, the rest 8 bits are parity bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	48, 32
((OPTION_B)) THIS IS ALSO MANDATORY	64,32

OPTION	
((OPTION_C)) This is optional	56, 24
((OPTION_D)) This is optional	32, 32
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____
((OPTION_A)) THIS IS MANDATORY OPTION	Scaling of the existing bits
((OPTION_B)) THIS IS ALSO MANDATORY	Duplication of the existing bits

<b>OPTION</b>	
((OPTION_C)) This is optional	Addition of zeros
((OPTION_D)) This is optional	Addition of ones
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits. This input is first expanded to 48 bits (permutation plus an expansion), that involves duplication of 16 of the bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Initial Permutation table/matrix is of size
((OPTION_A)) THIS IS MANDATORY OPTION	16×8
((OPTION_B)) THIS IS ALSO MANDATORY	12×8

OPTION	
((OPTION_C)) This is optional	8×8
((OPTION_D)) This is optional	4×8
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	There are 64 bits to permute and this requires a 8×8 matrix.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The number of unique substitution boxes in DES after the 48 bit XOR operation are
((OPTION_A)) THIS IS MANDATORY OPTION	8
((OPTION_B)) THIS IS ALSO MANDATORY	4

OPTION	
((OPTION_C)) This is optional	6
((OPTION_D)) This is optional	12
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The substitution consists of a set of 8 S-boxes, each of which accepts 6 bits as input and produces 4 bits as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During decryption, we use the Inverse Initial Permutation (IP-1) before the IP.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	IP-1 is the first step and the last step is IP during decryption.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A preferable cryptographic algorithm should have a good avalanche effect.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Thus statement is true as a change in one bit of the plaintext or one bit of the key should produce a change in many bits of the ciphertext. This is referred to as the avalanche effect.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the size(in bits) of the key in the SDES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	24
((OPTION_B)) THIS IS ALSO MANDATORY	16

OPTION	
((OPTION_C)) This is optional	20
((OPTION_D)) This is optional	10
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	The size of the key in the SDES algorithm is 10 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	GCD(a,b) is the same as GCD( a , b ).
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is true. $\gcd(60,24) = \gcd(60,-24) = 12$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 1160718174 and 316258250 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	882
((OPTION_B)) THIS IS ALSO MANDATORY	770

OPTION	
((OPTION_C)) This is optional	1078
((OPTION_D)) This is optional	1225
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$\text{GCD}(1160718174, 316258250) = 1078$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 102947526 and 239821932 using Euclidean algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	$\text{GCD}(102947526, 239821932) = 6.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 8376238 and 1921023 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	13
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	17
((OPTION_D)) This is optional	7
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	$\text{GCD}(8376238, 1921023) = 13.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 1234 mod 4321 is
((OPTION_A)) THIS IS MANDATORY OPTION	3239
((OPTION_B)) THIS IS ALSO MANDATORY	3213

OPTION	
((OPTION_C)) This is optional	3242
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The multiplicative Inverse of 1234 mod 4321 is 3239.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 550 mod 1769 is
((OPTION_A)) THIS IS MANDATORY OPTION	434
((OPTION_B)) THIS IS ALSO MANDATORY	224

OPTION	
((OPTION_C)) This is optional	550
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The multiplicative Inverse of 550 mod 1769 is 550.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p><b>You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,</b></p> $A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$ <p><b>Is the given matrix 'A', a valid key to be used for encryption?</b></p>
((OPTION_A)) THIS IS MANDATORY OPTION	Yes
((OPTION_B))	No

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Can't be determined
((OPTION_D)) This is optional	Data insufficient
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist.</p> <p>Here, in this case,</p> $  A   = 0$ <p>Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the <a href="#">Hill cipher</a>.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	The input text is divided into two parts: one being left half and another one being right half.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Swapping of the left and right halves are performed after each round.
((OPTION_C)) This is optional	The plain text is converted into a matrix form first
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Among the following given options, chose the strongest encryption technique

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	DES ( Data Encryption Standard))
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Double DES
((OPTION_C)) This is optional	Triple DES
((OPTION_D)) This is optional	AES (Advance Encryption Standard)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	<p><b>Consider the following steps,</b></p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift Rows</li> </ul>

IMAGES ALSO	<p>iii. Mix columns iv. Add round key</p> <p><b>The above steps are performed in each round of which of the following ciphers?</b></p>
((OPTION_A))  THIS IS MANDATORY OPTION	Rail fence cipher
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data Encryption Standard (DES)
((OPTION_C))  This is optional	Advance Encryption Standard (AES)
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ algorithm transforms ciphertext to plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ cipher replaces one character with another character.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ cipher reorders the plaintext characters to create a ciphertext.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the receiver uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either a or b
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is a(n) _____ method adopted by the U.S. government.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	either (a) or (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are _____ ciphers.
((OPTION_A)) THIS IS MANDATORY OPTION	block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	stream
((OPTION_C)) This is optional	field
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ cipher, the same key is used by both the sender and receiver.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ciphers can be categorized into two broad categories: monoalphabetic and polyalphabetic.
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the sender uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a(n) _____ cipher, a pair of keys is used.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	2
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES uses a _____ bit block size and a key size of _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	128; 128 or 256
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64; 128 or 192
((OPTION_C)) This is optional	256; 128, 192, or 256
((OPTION_D)) This is optional	128; 128, 192, or 256
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	It uses a 128-bit block size and a key size of 128, 192, or 256 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Like DES, AES also uses Feistel Structure.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES does not use a Feistel structure. Instead, each full round consists of four separate functions: -byte substitution -Permutation -arithmetic operations over a finite field, and -XOR with a key.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The $4 \times 4$ byte matrices in the AES algorithm are called
((OPTION_A)) THIS IS MANDATORY OPTION	States
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Words
((OPTION_C)) This is optional	Transitions
((OPTION_D)) This is optional	Permutations
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is a type of substitution cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	poly alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition cipher
((OPTION_C)) This is optional	Columnar cipher
((OPTION_D)) This is optional	Rail fence cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In substitution cipher the plain text is replaced by cipher text according to a fixed rule. There are two types of substitution cipher- Mono alphabetic and Poly alphabetic cipher.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following correctly defines poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	a substitution based cipher which uses multiple substitution at different positions
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a substitution based cipher which uses fixed substitution over entire message
((OPTION_C)) This is optional	a transposition based cipher which uses multiple substitution at different positions
((OPTION_D)) This is optional	A transposition based cipher which uses fixed substitution over entire message
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Poly alphabetic cipher is a type of substitution cipher. It uses multiple substitution at different positions in order to cipher the plain text.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a type of poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Rotor cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hill cipher
((OPTION_C)) This is optional	One time pad cipher
((OPTION_D)) This is optional	Affine cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	In poly alphabetic cipher each symbol of plain text is replaced by a different cipher text regardless of its occurrence. Out of the given options, only affine cipher is not a poly alphabetic cipher.

((MARKS)) QUESTION IS OF	2
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	We are provided the plain text "SUN". You need to convert the given plain text into ciphertext under the Ceasar cipher encryption technique. Which of the following options is the correct ciphertext for the given text if the key is 2?
((OPTION_A)) THIS IS MANDATORY OPTION	UWP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NUS
((OPTION_C)) This is optional	WUP
((OPTION_D)) This is optional	QSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>In the Caesar cipher technique, the encryption is performed as follows,</p> $E(P, K) = (P + K) \text{ mod } 26$ <p>Therefore,</p> $E(S, 2) = (18 + 2) \text{ mod } 26 = 20 = U$ $E(U, 2) = (20 + 2) \text{ mod } 26 = 22 = W$ $E(N, 2) = (13 + 2) \text{ mod } 26 = 15 = P$ <p>Hence, the ciphertext is "UWP".</p>

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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following cipher techniques include the involvement of matrix operations in their algorithms of encryption and decryption?
((OPTION_A)) THIS IS MANDATORY OPTION	<u>Hill Cipher</u>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<u>Playfair cipher</u>
((OPTION_C)) This is optional	Both a and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also	The hill cipher includes a square matrix as the key, and in Playfair cipher, we create a 5X5 matrix using the given key string. Hence,

optional	both these ciphers include the use of matrices.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Playfair cipher is an example of _____
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C)) This is optional	transposition cipher
((OPTION_D)) This is optional	additive cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	Playfair cipher is a substitution cipher. It falls under the category of poly alphabetic cipher as it uses multiple substitution at different positions in order to cipher the plain text.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Encryption in Playfair cipher is done using _
((OPTION_A)) THIS IS MANDATORY OPTION	a 5×5 table
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a 13×2 table
((OPTION_C)) This is optional	vigenere table
((OPTION_D)) This is optional	a 6×6 table
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A

((EXPLANATION)) This is also optional	
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the plain text corresponding to cipher text "BPKYFS" if playfair cipher is used with keyword as "SECRET" (assuming j is combined with i)?
((OPTION_A))  THIS IS MANDATORY OPTION	INDIAN
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	WORLD
((OPTION_C))  This is optional	DOLLAR
((OPTION_D))  This is optional	HELLO
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C

((EXPLANATION)) This is also optional	To decrypt the message we follow the reverse procedure. The table is formed in the same manner. Applying this we get the plain text to be "DOLLAR".
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair are identical?
((OPTION_A)) THIS IS MANDATORY OPTION	then that pair is neglected
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a null(or x) is added in between the letters
((OPTION_C)) This is optional	one of the identical letter is replaced by some other letter
((OPTION_D)) This is optional	then both of the letters are replaced by the letter appearing just next in the row
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	In playfair cipher if the letters in a pair are identical then a null is added in between the letters. Any letter can be used as a null as long as that letter is not the one being repeated.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same row?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter at the corner of the row
((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	If the letters in a pair appear in same row then they are replaced by the letters appearing immediately right to them respectively. If the element to be replaced appears at the corner of the row then we wrap around to the left side of that row.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the ciphered text if the string “SANFOUNDRY” is given as input to the code of playfair cipher with keyword as “SECRET” (assuming j is combined with i)?
((OPTION_A)) THIS IS MANDATORY OPTION	ZHQAPNPAFR
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AHQAPNPAFR
((OPTION_C)) This is optional	HAQAPNPAFR
((OPTION_D)) This is optional	QHAAPNPAFR
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	B

E	
((EXPLANATION)) This is also optional	<p>For encrypting the plain text using playfair cipher we use a <math>5 \times 5</math> table that is constructed by using keyword. Then we apply rules for encryption in order to get the censored text. Table is given as under-</p> <p>S E C R T</p> <p>A B D F G</p> <p>H I K L M</p> <p>N O P Q U</p> <p>V W X Y Z</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letters at the corner of the row
((OPTION_D))	that pair is neglected

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	If the letters in a pair appear in the same column then they are replaced by the letters appearing immediately below them respectively. If the element to be replaced appears at the corner of the column then we wrap around to the top side of that column.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair does not appear in same row or column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter of the same row at the corner of the rectangle defined by the original pair respectively

((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	If the letters in a pair does not appear in same row or column then they are replaced by the letters of the same row at the corner of the rectangle defined by the original pair respectively. The order of letters should be maintained.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Columnar cipher falls under the category of?
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C))	additive cipher

This is optional	
((OPTION_D)) This is optional	Transposition cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Columnar cipher is a transposition cipher. It falls under the category of transposition cipher as it encrypts the plain text by rearranging its letters.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following ciphered text would have NOT used transposition cipher for encryption of the plain text "CIPHER"?
((OPTION_A)) THIS IS MANDATORY OPTION	EPIHRC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EHIPCR
((OPTION_C))	DTIPRC

This is optional	
((OPTION_D))	HRIPEC
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	We know that transposition cipher encrypts the plain text by shuffling the letters of the plain text. So out of the given options, only “DTIPRC” does not have the same set of letters as “CIPHER”.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many columns do we need to have in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	4
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	5
((OPTION_C))	6

This is optional	
((OPTION_D))	7
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So in this case it will be equal to 6.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the encrypted text corresponding to plain text “CLASSIFIED” using columnar transposition cipher with a keyword as “GAMES”?
((OPTION_A)) THIS IS MANDATORY OPTION	LFDSIASECI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SECIAISDFL
((OPTION_C))	CILFAISESD

This is optional																					
((OPTION_D))	IFSECIAISD																				
This is optional																					
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CH OICE)) Either A or B or C or D or E	D																				
((EXPLANATION )) This is also optional	<p>For encrypting using columnar cipher we have to arrange the letters of the plain text in a table which has the same number of columns as the letters of the keyword. Then the letters of the keyword are arranged in alphabetical order and we read along each column.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>1</td><td>4</td><td>2</td><td>5</td></tr> <tr><td>G</td><td>A</td><td>M</td><td>E</td><td>S</td></tr> <tr><td>C</td><td>L</td><td>A</td><td>S</td><td>S</td></tr> <tr><td>I</td><td>F</td><td>I</td><td>E</td><td>D</td></tr> </table> <p>So the ciphered text will be “IFSECIAISD”.</p>	3	1	4	2	5	G	A	M	E	S	C	L	A	S	S	I	F	I	E	D
3	1	4	2	5																	
G	A	M	E	S																	
C	L	A	S	S																	
I	F	I	E	D																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many rows will the letters of the plain text occupy in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B))	2

THIS IS ALSO MANDATORY OPTION																					
((OPTION_C)) This is optional	3																				
((OPTION_D)) This is optional	4																				
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CHOICE)) Either A or B or C or D or E	B																				
((EXPLANATION)) This is also optional	<p>Explanation: The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So when we will write the letters of the plain text row wise then there will be 2 rows of plain text in this case. The table is shown below :-</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>S</td> <td>E</td> <td>C</td> <td>R</td> <td>E</td> <td>T</td> </tr> <tr> <td>1</td> <td>S</td> <td>A</td> <td>N</td> <td>F</td> <td>O</td> <td>U</td> </tr> <tr> <td>2</td> <td>N</td> <td>D</td> <td>R</td> <td>Y</td> <td></td> <td></td> </tr> </table>	S	E	C	R	E	T	1	S	A	N	F	O	U	2	N	D	R	Y		
S	E	C	R	E	T																
1	S	A	N	F	O	U															
2	N	D	R	Y																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following statement is not true regarding columnar transposition cipher?
((OPTION_A)) THIS IS	probability of error is high while deciphering

MANDATORY OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	it cannot be combined with other ciphers
((OPTION_C)) This is optional	it is a traditional symmetric cipher
((OPTION_D)) This is optional	it is a weak cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Although columnar transposition cipher is a weak cipher in itself. But it can be combined with other substitution ciphers so as to improve its security. The probability of error remains high while decoding columnar cipher as it is a lengthy process

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is another data hiding technique which can be used in conjunction with cryptography for the extra-secure method of protecting data.
((OPTION_A))	Cryptography

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Steganography
((OPTION_C))  This is optional	Tomography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Steganography is the technique of hiding data in another raw data. Steganography is another data hiding technique which can be used in conjunction with cryptography for an extra-secure method of protecting data.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is hiding of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Steganography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Steganography helps in hiding any form of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ tool permits security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Chorography
((OPTION_D))  This is optional	Steganography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	A steganography tool is a software tool that permits a security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main motive for using steganography is that hackers or other users can hide a secret message behind a _____

((OPTION_A)) THIS IS MANDATORY OPTION	special file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ordinary file
((OPTION_C)) This is optional	program file
((OPTION_D)) This is optional	encrypted file
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	The main motive for using steganography is that hackers or other users can hide a secret message behind ordinary files. Some steganography tools are SSuite Picsel, rSteg etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	People will normally think it as a normal/regular file and your secret message will pass on without any _____

((OPTION_A)) THIS IS MANDATORY OPTION	Suspicion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	cracking
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Steganography techniques help hackers or other users to conceal covert message behind regular files. People will normally think it as a normal/regular file and your secret message will pass on without any suspicion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	By using _____ you can diminish the chance of data leakage

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C)) This is optional	Chorography
((OPTION_D)) This is optional	Steganography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Hackers or other cyber criminals target ordinary files to hide different data or information within another data file. By using steganography, you can diminish the chance of data leakage.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Which of the following is a mode of operation for the Block ciphers in cryptography?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Electronic Code Book (ECB)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher Block Chaining (CBC)
((OPTION_C)) This is optional	Counter (CTR) mode
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	For which of the following should EBC (Electronic Code Book) process not be used for encryption?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	For large block sizes
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	For fixed block sizes
((OPTION_C)) This is optional	For small block sizes
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	It is preferred that the block size in the ECB technique must be greater than 64 bits. If not, the text is padded to make it of the required length. This is due to some particular words and phrases that may be reused again often so that the same repetitive part of ciphertext can emerge as mixed.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	Which of the following is the main disadvantage of the ECB (Electronic Code Book)?

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	It requires large block size
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Padding is done to make the plain text divisible into blocks of fixed size
((OPTION_C)) This is optional	It is prone to cryptanalysis since there is a direct relationship between plain text and cipher text.
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	In <u>ECB</u> , there lies a direct relation between the plain text and the ciphertext. Therefore, it is easy for an outsider to break the encryption logic and steal the data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options is not correct according to the definition of the Cipher Block Chaining (CBC)?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC is a mode of operation for stream ciphers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Initialization vector (IV) is used in CBC in the initial phase.
((OPTION_C)) This is optional	It has better resistive nature towards cryptanalysis than ECB
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<a href="#">CBC</a> which stands for Cipher Block chaining is a mode of operation for block ciphers and not for stream ciphers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following modes of operations can be followed for both stream ciphers as well as block ciphers?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC (Cipher Block Chaining)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECB (Electronic Code Book)
((OPTION_C)) This is optional	CFB (Cipher text Feed Back)
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	<b>CFB</b> is primarily a mode to derive some characteristics of a stream cipher from a block cipher on the cryptography in cryptoanalysis.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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<p>((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO</p>	<p>All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?</p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift rows</li> <li>iii. Mix columns</li> <li>iv. Add round key</li> </ul>
<p>((OPTION_A)) THIS IS MANDATORY OPTION</p>	<p>i</p>
<p>((OPTION_B)) THIS IS ALSO MANDATORY OPTION</p>	<p>iii</p>
<p>((OPTION_C)) This is optional</p>	<p>All of the mentioned</p>
<p>((OPTION_D)) This is optional</p>	<p>None of the mentioned</p>
<p>((OPTION_E)) This is optional. If optional keep empty so that system will skip this option</p>	
<p>((CORRECT_CHOICE)) Either A or B or C or D or E</p>	<p>B</p>
<p>((EXPLANATION)) This is also optional</p>	<p>In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.</p>

<p>((MARKS))</p>	<p>1</p>
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"The number of rounds in the AES algorithm depends upon the key size being used." Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	128 key size: 10 rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	192 key size: 12 rounds
((OPTION_C)) This is optional	256 key size: 14 rounds
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Avalanche effect
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Completeness
((OPTION_C)) This is optional	Both a. and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For the AES-128 algorithm there are _____ similar rounds and _____ round is different.
((OPTION_A)) THIS IS MANDATORY OPTION	2 pair of 5 similar rounds ; every alternate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	9 ; the last
((OPTION_C)) This is optional	8 ; the first and last
((OPTION_D)) This is optional	10 ; no
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the 4 operations are false for each round in the AES algorithm? i) Substitute Bytes ii) Shift Columns iii) Mix Rows iv) XOR Key
((OPTION_A)) THIS IS MANDATORY OPTION	i) only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii) iii) and iv)
((OPTION_C)) This is optional	ii) and iii)
((OPTION_D)) This is optional	only iv
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES rounds involve substitute bytes, shift rows, mix columns and addition of round key.

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There is an addition of round key before the start of the AES round algorithms.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In AES the final round contains only three transformations, and there is an initial single transformation (Add Round Key) before the first round which can be considered Round 0. Each transformation takes $4 \times 4$ matrixes as input and produces a $4 \times 4$ matrix as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1																
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the Shifted Row transformation for the matrix bellow?  <table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_A))  THIS IS MANDATORY OPTION	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	<table border="1"> <tr> <td>72</td><td>2B</td><td>D7</td><td>FE</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>63</td><td>AD</td><td>01</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	72	2B	D7	FE	A4	6B	6B	77	63	AD	01	F0	30	D7	AF	FE
72	2B	D7	FE														
A4	6B	6B	77														
63	AD	01	F0														
30	D7	AF	FE														
((OPTION_C))  This is optional	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>77</td><td>A4</td><td>6B</td><td>6B</td></tr> <tr> <td>F0</td><td>63</td><td>AD</td><td>01</td></tr> <tr> <td>FE</td><td>30</td><td>D7</td><td>AF</td></tr> </table>	FE	72	2B	D7	77	A4	6B	6B	F0	63	AD	01	FE	30	D7	AF
FE	72	2B	D7														
77	A4	6B	6B														
F0	63	AD	01														
FE	30	D7	AF														
((OPTION_D))  This is optional	<table border="1"> <tr> <td>D7</td><td>FE</td><td>72</td><td>2B</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>01</td><td>AD</td><td>63</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	D7	FE	72	2B	A4	6B	6B	77	01	AD	63	F0	30	D7	AF	FE
D7	FE	72	2B														
A4	6B	6B	77														
01	AD	63	F0														
30	D7	AF	FE														

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The Shift Rows transformation consists of: -Not shifting the first row of the state array at all. -Circularly shifting the second row by one byte to the left. -Circularly shifting the third row by two bytes to the left, and -Circularly shifting the last row by three bytes to the left.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not weak key in DES
((OPTION_A)) THIS IS MANDATORY OPTION	0x0101010101010101
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0xEFABFEFEFEFEFEFE
((OPTION_C)) This is optional	0x1F1F1F1F0E0E0E0E
((OPTION_D))	0xFFFFFFFFFFFFFF

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple-DES has _____ keys.
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	2
((OPTION_C)) This is optional	5
((OPTION_D))	4

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a encryption technique which uses two instance of DES on same plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	Double DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripple DES
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack which can be used to break through double DES.
((OPTION_A)) THIS IS MANDATORY OPTION	Brute force
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	meet-in-the middle
((OPTION_C)) This is optional	Timing
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple DES involve __
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption, Decryption, Decryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption ,Encryption, Encryption
((OPTION_C)) This is optional	Decryption ,Encryption, Decryption
((OPTION_D))	Encryption, Decryption, Encryption

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ involves feeding the successive output blocks from the underlying block cipher back to it
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	OFB
((OPTION_D))	CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is counter-based version of CFB mode without the feedback
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	counter
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below mode is independent of previous output
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	CFB
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Errors get propagated in all modes except ___and ___
((OPTION_A)) THIS IS MANDATORY OPTION	ECB,COUNTER
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC,COUNTER
((OPTION_C)) This is optional	CFB,COUNTER
((OPTION_D))	OFB,CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Patterns are not preserved in ___ mode
((OPTION_A)) THIS IS MANDATORY OPTION	CBC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CFB
((OPTION_C)) This is optional	Both CBC and CFB
((OPTION_D))	ECB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A small change in plaintext results in the very great change in the cipher text indicates which characteristic
((OPTION_A)) THIS IS MANDATORY OPTION	completeness
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Strong key
((OPTION_C)) This is optional	Avalanche effect
((OPTION_D))	All of the above

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ ciphers, the plaintext is processed one bit at a time i.e. one bit of plaintext is taken, and a series of operations is performed on it to generate one bit of cipher text.
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	More number of _____ provide more secure system in feistel cipher.
((OPTION_A)) THIS IS MANDATORY OPTION	rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	keys
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	Function
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The number of rounds used in a Feistel Cipher depends on desired security from the system. More number of rounds provide more secure system. But at the same time, more rounds mean the inefficient slow encryption and decryption processes..

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following Algorithms does not belong to symmetric encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	3DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	RC5
((OPTION_D)) This is optional	IDEA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Assymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?
((OPTION_A)) THIS IS MANDATORY OPTION	Not true, the message can also be decrypted with the Public Key.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A so called "one way function with back door" is applied for the encryption
((OPTION_C)) This is optional	The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.
((OPTION_D)) This is optional	The encrypted message contains the function for decryption which identifies the Private Key.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	An one-way function is a function which a computer can calculate quickly, but whose reversal would last months or years. An one-way function with back door can be reversed with the help of a couple of additional information (the back door), but scarcely

	without this information. The information for the back door is contained in the private Key.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the largest disadvantage of the symmetric Encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	More complex and therefore more time-consuming calculations.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Problem of the secure transmission of the Secret Key
((OPTION_C)) This is optional	Less secure encryption function.
((OPTION_D)) This is optional	Isn't used any more
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION))	As there is only one key in the symmetrical encryption, this must

)) This is also optional	be known by both sender and recipient and this key is sufficient to decrypt the secret message. Therefore it must be exchanged between sender and receiver in such a manner that an unauthorized person can in no case take possession of it.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the principle of the encryption using a key?
((OPTION_A)) THIS IS MANDATORY OPTION	The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	The key contains the secret function for encryption including parameters. Only a password can activate the key.
((OPTION_C)) This is optional	All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.
((OPTION_D)) This is optional	The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	C

E	
((EXPLANATION)) This is also optional	The encoding of a message is calculated by an algorithm. If always the same algorithm would be used, it would be easy to crack intercepted messages. However, it isn't possible to invent a new algorithm whenever the old one was cracked, therefor the possibility to parameterize algorithms is needed and this is the assignment of the key. All algorithms must be public, only the keys are secret (principle of Kerckhoff, Dutch cryptographer during 19th century).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If the sender and receiver use different keys, the system is referred to as conventional cipher system
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Such a system is called asymmetric, two-key, or public-key cipher system

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Use Caesar's Cipher to decipher the following HQFUBSWHG WHAW
((OPTION_A)) THIS IS MANDATORY OPTION	ABANDONED LOCK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ENCRYPTED TEXT
((OPTION_C)) This is optional	ABANDONED TEXT
((OPTION_D)) This is optional	ENCRYPTED LOCK
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher uses $C = (p+3) \text{ mod } 26$ to encrypt.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Caesar Cipher is an example of
((OPTION_A)) THIS IS MANDATORY OPTION	Poly-alphabetic Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Mono-alphabetic Cipher
((OPTION_C)) This is optional	Multi-alphabetic Cipher
((OPTION_D)) This is optional	Bi-alphabetic Cipher
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher is an example of Mono-alphabetic cipher, as single alphabets are encrypted or decrypted at a time.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Monoalphabetic ciphers are easier to break because they reflect the frequency of the original alphabet.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis
((OPTION_A)) THIS IS MANDATORY OPTION	Random Polyalphabetic, Plaintext, Playfair
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Random Polyalphabetic, Playfair, Vignere
((OPTION_C)) This is optional	Random Polyalphabetic, Vignere, Playfair, Plaintext
((OPTION_D)) This is optional	Random Polyalphabetic, Plaintext, Beaufort, Playfair
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Random Polyalphabetic is the most resistant to frequency analysis, followed by Vignere, Playfair and then Plaintext.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-
((OPTION_A)) THIS IS MANDATORY OPTION	abqdnnewuwjphfvrrtrfznsdokvl
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	abqdmwwuwjphfvyyrfznydokvl
((OPTION_C)) This is optional	tbqyrvmwuwjphfvyyrfznydokvl
((OPTION_D)) This is optional	baiuvmwuwjphfoeiyrzfznydokvl
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	nlazeiiblji
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nlazeiiblji
((OPTION_C)) This is optional	olaaeiiblki
((OPTION_D)) This is optional	mlaaeiibljk
((OPTION_E)) This is optional. If optional keep empty so that	

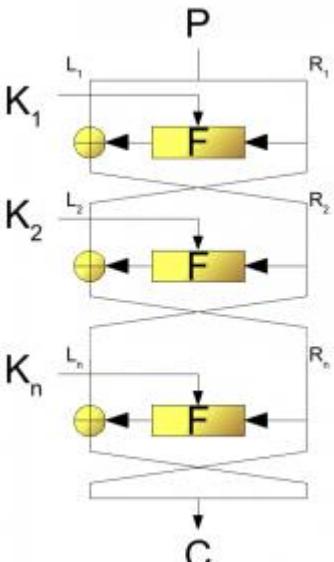
system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m$ (mod 26).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Confusion hides the relationship between the ciphertext and the plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Confusion hides the relationship between the ciphertext and the key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The S-Box is used to provide confusion, as it is dependent on the unknown key.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	false
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The S-Box is used to provide confusion, as it is dependent on the unknown key. The P-Box is fixed, and there is no confusion due to it, but it provides diffusion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This is an example of 
((OPTION_A)) THIS IS MANDATORY OPTION	SP Networks
((OPTION_B)) THIS IS ALSO MANDATORY	Feistel Cipher

OPTION	
((OPTION_C)) This is optional	Hash Algorithm
((OPTION_D)) This is optional	Hill Cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following slows the cryptographic algorithm – 1) Increase in Number of rounds 2) Decrease in Block size 3) Decrease in Key Size 4) Increase in Sub key Generation
((OPTION_A)) THIS IS MANDATORY OPTION	1 and 3
((OPTION_B)) THIS IS ALSO MANDATORY	2 and 3

OPTION	
((OPTION_C)) This is optional	3 and 4
((OPTION_D)) This is optional	2 and 4
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Increase in any of the above 4 leads to slowing of the cipher algorithm i.e. more computational time will be required.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES follows
((OPTION_A)) THIS IS MANDATORY OPTION	Hash Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY	Caesars Cipher

OPTION	
((OPTION_C)) This is optional	Feistel Cipher Structure
((OPTION_D)) This is optional	SP Network
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES Algorithm Cipher System consists of _____ rounds (iterations) each with a round key
((OPTION_A)) THIS IS MANDATORY OPTION	12
((OPTION_B)) THIS IS ALSO MANDATORY	18

OPTION	
((OPTION_C)) This is optional	9
((OPTION_D)) This is optional	16
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The DES Algorithm Cipher System consists of 16 rounds (iterations) each with a round key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES algorithm has a key length of
((OPTION_A)) THIS IS MANDATORY OPTION	128 Bits
((OPTION_B)) THIS IS ALSO MANDATORY	32 Bits

OPTION	
((OPTION_C)) This is optional	64 Bits
((OPTION_D)) This is optional	16 Bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	56 bits are used, the rest 8 bits are parity bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	48, 32
((OPTION_B)) THIS IS ALSO MANDATORY	64,32

OPTION	
((OPTION_C)) This is optional	56, 24
((OPTION_D)) This is optional	32, 32
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____
((OPTION_A)) THIS IS MANDATORY OPTION	Scaling of the existing bits
((OPTION_B)) THIS IS ALSO MANDATORY	Duplication of the existing bits

OPTION	
((OPTION_C)) This is optional	Addition of zeros
((OPTION_D)) This is optional	Addition of ones
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits. This input is first expanded to 48 bits (permutation plus an expansion), that involves duplication of 16 of the bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Initial Permutation table/matrix is of size
((OPTION_A)) THIS IS MANDATORY OPTION	$16 \times 8$
((OPTION_B)) THIS IS ALSO MANDATORY	$12 \times 8$

OPTION	
((OPTION_C)) This is optional	8×8
((OPTION_D)) This is optional	4×8
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	There are 64 bits to permute and this requires a 8×8 matrix.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The number of unique substitution boxes in DES after the 48 bit XOR operation are
((OPTION_A)) THIS IS MANDATORY OPTION	8
((OPTION_B)) THIS IS ALSO MANDATORY	4

OPTION	
((OPTION_C)) This is optional	6
((OPTION_D)) This is optional	12
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The substitution consists of a set of 8 S-boxes, each of which accepts 6 bits as input and produces 4 bits as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During decryption, we use the Inverse Initial Permutation (IP-1) before the IP.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	IP-1 is the first step and the last step is IP during decryption.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A preferable cryptographic algorithm should have a good avalanche effect.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Thus statement is true as a change in one bit of the plaintext or one bit of the key should produce a change in many bits of the ciphertext. This is referred to as the avalanche effect.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the size(in bits) of the key in the SDES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	24
((OPTION_B)) THIS IS ALSO MANDATORY	16

OPTION	
((OPTION_C)) This is optional	20
((OPTION_D)) This is optional	10
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	The size of the key in the SDES algorithm is 10 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	GCD(a,b) is the same as GCD( a , b ).
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	This is true. $\gcd(60,24) = \gcd(60,-24) = 12$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 1160718174 and 316258250 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	882
((OPTION_B)) THIS IS ALSO MANDATORY	770

OPTION	
((OPTION_C)) This is optional	1078
((OPTION_D)) This is optional	1225
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$\text{GCD}(1160718174, 316258250) = 1078$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 102947526 and 239821932 using Euclidean algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	$\text{GCD}(102947526, 239821932) = 6.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 8376238 and 1921023 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	13
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	17
((OPTION_D)) This is optional	7
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	$\text{GCD}(8376238, 1921023) = 13.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 1234 mod 4321 is
((OPTION_A)) THIS IS MANDATORY OPTION	3239
((OPTION_B)) THIS IS ALSO MANDATORY	3213

OPTION	
((OPTION_C)) This is optional	3242
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The multiplicative Inverse of 1234 mod 4321 is 3239.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 550 mod 1769 is
((OPTION_A)) THIS IS MANDATORY OPTION	434
((OPTION_B)) THIS IS ALSO MANDATORY	224

OPTION	
((OPTION_C)) This is optional	550
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The multiplicative Inverse of 550 mod 1769 is 550.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p><b>You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,</b></p> $A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$ <p><b>Is the given matrix 'A', a valid key to be used for encryption?</b></p>
((OPTION_A)) THIS IS MANDATORY OPTION	Yes
((OPTION_B))	No

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Can't be determined
((OPTION_D)) This is optional	Data insufficient
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist.</p> <p>Here, in this case,</p> $  A   = 0$ <p>Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the <a href="#">Hill cipher</a>.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	The input text is divided into two parts: one being left half and another one being right half.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Swapping of the left and right halves are performed after each round.
((OPTION_C)) This is optional	The plain text is converted into a matrix form first
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Among the following given options, chose the strongest encryption technique

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	DES ( Data Encryption Standard))
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Double DES
((OPTION_C)) This is optional	Triple DES
((OPTION_D)) This is optional	AES (Advance Encryption Standard)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	<p><b>Consider the following steps,</b></p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift Rows</li> </ul>

IMAGES ALSO	<p>iii. Mix columns iv. Add round key</p> <p><b>The above steps are performed in each round of which of the following ciphers?</b></p>
((OPTION_A))  THIS IS MANDATORY OPTION	Rail fence cipher
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data Encryption Standard (DES)
((OPTION_C))  This is optional	Advance Encryption Standard (AES)
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ algorithm transforms ciphertext to plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ cipher replaces one character with another character.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ cipher reorders the plaintext characters to create a ciphertext.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the receiver uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either a or b
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is a(n) _____ method adopted by the U.S. government.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	either (a) or (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are _____ ciphers.
((OPTION_A)) THIS IS MANDATORY OPTION	block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	stream
((OPTION_C)) This is optional	field
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ cipher, the same key is used by both the sender and receiver.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ciphers can be categorized into two broad categories: monoalphabetic and polyalphabetic.
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the sender uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a(n) _____ cipher, a pair of keys is used.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	2
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES uses a _____ bit block size and a key size of _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	128; 128 or 256
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64; 128 or 192
((OPTION_C)) This is optional	256; 128, 192, or 256
((OPTION_D)) This is optional	128; 128, 192, or 256
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	It uses a 128-bit block size and a key size of 128, 192, or 256 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Like DES, AES also uses Feistel Structure.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES does not use a Feistel structure. Instead, each full round consists of four separate functions: -byte substitution -Permutation -arithmetic operations over a finite field, and -XOR with a key.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The $4 \times 4$ byte matrices in the AES algorithm are called
((OPTION_A)) THIS IS MANDATORY OPTION	States
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Words
((OPTION_C)) This is optional	Transitions
((OPTION_D)) This is optional	Permutations
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is a type of substitution cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	poly alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition cipher
((OPTION_C)) This is optional	Columnar cipher
((OPTION_D)) This is optional	Rail fence cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In substitution cipher the plain text is replaced by cipher text according to a fixed rule. There are two types of substitution cipher- Mono alphabetic and Poly alphabetic cipher.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following correctly defines poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	a substitution based cipher which uses multiple substitution at different positions
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a substitution based cipher which uses fixed substitution over entire message
((OPTION_C)) This is optional	a transposition based cipher which uses multiple substitution at different positions
((OPTION_D)) This is optional	A transposition based cipher which uses fixed substitution over entire message
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Poly alphabetic cipher is a type of substitution cipher. It uses multiple substitution at different positions in order to cipher the plain text.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a type of poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Rotor cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hill cipher
((OPTION_C)) This is optional	One time pad cipher
((OPTION_D)) This is optional	Affine cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	In poly alphabetic cipher each symbol of plain text is replaced by a different cipher text regardless of its occurrence. Out of the given options, only affine cipher is not a poly alphabetic cipher.

((MARKS)) QUESTION IS OF	2
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	We are provided the plain text "SUN". You need to convert the given plain text into ciphertext under the Ceasar cipher encryption technique. Which of the following options is the correct ciphertext for the given text if the key is 2?
((OPTION_A)) THIS IS MANDATORY OPTION	UWP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NUS
((OPTION_C)) This is optional	WUP
((OPTION_D)) This is optional	QSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>In the Caesar cipher technique, the encryption is performed as follows,</p> $E(P, K) = (P + K) \text{ mod } 26$ <p>Therefore,</p> $E(S, 2) = (18 + 2) \text{ mod } 26 = 20 = U$ $E(U, 2) = (20 + 2) \text{ mod } 26 = 22 = W$ $E(N, 2) = (13 + 2) \text{ mod } 26 = 15 = P$ <p>Hence, the ciphertext is "UWP".</p>

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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following cipher techniques include the involvement of matrix operations in their algorithms of encryption and decryption?
((OPTION_A)) THIS IS MANDATORY OPTION	<u>Hill Cipher</u>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<u>Playfair cipher</u>
((OPTION_C)) This is optional	Both a and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also	The hill cipher includes a square matrix as the key, and in Playfair cipher, we create a 5X5 matrix using the given key string. Hence,

optional	both these ciphers include the use of matrices.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Playfair cipher is an example of _____
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C)) This is optional	transposition cipher
((OPTION_D)) This is optional	additive cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	Playfair cipher is a substitution cipher. It falls under the category of poly alphabetic cipher as it uses multiple substitution at different positions in order to cipher the plain text.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Encryption in Playfair cipher is done using _
((OPTION_A)) THIS IS MANDATORY OPTION	a 5×5 table
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a 13×2 table
((OPTION_C)) This is optional	vigenere table
((OPTION_D)) This is optional	a 6×6 table
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A

((EXPLANATION)) This is also optional	
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the plain text corresponding to cipher text "BPKYFS" if playfair cipher is used with keyword as "SECRET" (assuming j is combined with i)?
((OPTION_A))  THIS IS MANDATORY OPTION	INDIAN
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	WORLD
((OPTION_C))  This is optional	DOLLAR
((OPTION_D))  This is optional	HELLO
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C

((EXPLANATION)) This is also optional	To decrypt the message we follow the reverse procedure. The table is formed in the same manner. Applying this we get the plain text to be "DOLLAR".
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair are identical?
((OPTION_A)) THIS IS MANDATORY OPTION	then that pair is neglected
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a null(or x) is added in between the letters
((OPTION_C)) This is optional	one of the identical letter is replaced by some other letter
((OPTION_D)) This is optional	then both of the letters are replaced by the letter appearing just next in the row
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	In playfair cipher if the letters in a pair are identical then a null is added in between the letters. Any letter can be used as a null as long as that letter is not the one being repeated.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same row?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter at the corner of the row
((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	If the letters in a pair appear in same row then they are replaced by the letters appearing immediately right to them respectively. If the element to be replaced appears at the corner of the row then we wrap around to the left side of that row.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the ciphered text if the string “SANFOUNDRY” is given as input to the code of playfair cipher with keyword as “SECRET” (assuming j is combined with i)?
((OPTION_A)) THIS IS MANDATORY OPTION	ZHQAPNPAFR
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AHQAPNPAFR
((OPTION_C)) This is optional	HAQAPNPAFR
((OPTION_D)) This is optional	QHAAPNPAFR
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	B

E	
((EXPLANATION)) This is also optional	<p>For encrypting the plain text using playfair cipher we use a <math>5 \times 5</math> table that is constructed by using keyword. Then we apply rules for encryption in order to get the censored text. Table is given as under-</p> <p>S E C R T</p> <p>A B D F G</p> <p>H I K L M</p> <p>N O P Q U</p> <p>V W X Y Z</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letters at the corner of the row
((OPTION_D))	that pair is neglected

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	If the letters in a pair appear in the same column then they are replaced by the letters appearing immediately below them respectively. If the element to be replaced appears at the corner of the column then we wrap around to the top side of that column.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair does not appear in same row or column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter of the same row at the corner of the rectangle defined by the original pair respectively

((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	If the letters in a pair does not appear in same row or column then they are replaced by the letters of the same row at the corner of the rectangle defined by the original pair respectively. The order of letters should be maintained.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Columnar cipher falls under the category of?
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C))	additive cipher

This is optional	
((OPTION_D)) This is optional	Transposition cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Columnar cipher is a transposition cipher. It falls under the category of transposition cipher as it encrypts the plain text by rearranging its letters.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following ciphered text would have NOT used transposition cipher for encryption of the plain text "CIPHER"?
((OPTION_A)) THIS IS MANDATORY OPTION	EPIHRC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EHIPCR
((OPTION_C))	DTIPRC

This is optional	
((OPTION_D))	HRIPEC
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	We know that transposition cipher encrypts the plain text by shuffling the letters of the plain text. So out of the given options, only “DTIPRC” does not have the same set of letters as “CIPHER”.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many columns do we need to have in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	4
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	5
((OPTION_C))	6

This is optional	
((OPTION_D))	7
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So in this case it will be equal to 6.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the encrypted text corresponding to plain text “CLASSIFIED” using columnar transposition cipher with a keyword as “GAMES”?
((OPTION_A)) THIS IS MANDATORY OPTION	LFDSIASECI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SECIAISDFL
((OPTION_C))	CILFAISESD

This is optional																					
((OPTION_D))	IFSECIAISD																				
This is optional																					
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CH OICE)) Either A or B or C or D or E	D																				
((EXPLANATION )) This is also optional	<p>For encrypting using columnar cipher we have to arrange the letters of the plain text in a table which has the same number of columns as the letters of the keyword. Then the letters of the keyword are arranged in alphabetical order and we read along each column.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>1</td><td>4</td><td>2</td><td>5</td></tr> <tr><td>G</td><td>A</td><td>M</td><td>E</td><td>S</td></tr> <tr><td>C</td><td>L</td><td>A</td><td>S</td><td>S</td></tr> <tr><td>I</td><td>F</td><td>I</td><td>E</td><td>D</td></tr> </table> <p>So the ciphered text will be “IFSECIAISD”.</p>	3	1	4	2	5	G	A	M	E	S	C	L	A	S	S	I	F	I	E	D
3	1	4	2	5																	
G	A	M	E	S																	
C	L	A	S	S																	
I	F	I	E	D																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many rows will the letters of the plain text occupy in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B))	2

THIS IS ALSO MANDATORY OPTION																					
((OPTION_C)) This is optional	3																				
((OPTION_D)) This is optional	4																				
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CHOICE)) Either A or B or C or D or E	B																				
((EXPLANATION)) This is also optional	<p>Explanation: The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So when we will write the letters of the plain text row wise then there will be 2 rows of plain text in this case. The table is shown below :-</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>S</td> <td>E</td> <td>C</td> <td>R</td> <td>E</td> <td>T</td> </tr> <tr> <td>1</td> <td>S</td> <td>A</td> <td>N</td> <td>F</td> <td>O</td> <td>U</td> </tr> <tr> <td>2</td> <td>N</td> <td>D</td> <td>R</td> <td>Y</td> <td></td> <td></td> </tr> </table>	S	E	C	R	E	T	1	S	A	N	F	O	U	2	N	D	R	Y		
S	E	C	R	E	T																
1	S	A	N	F	O	U															
2	N	D	R	Y																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following statement is not true regarding columnar transposition cipher?
((OPTION_A)) THIS IS	probability of error is high while deciphering

MANDATORY OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	it cannot be combined with other ciphers
((OPTION_C)) This is optional	it is a traditional symmetric cipher
((OPTION_D)) This is optional	it is a weak cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Although columnar transposition cipher is a weak cipher in itself. But it can be combined with other substitution ciphers so as to improve its security. The probability of error remains high while decoding columnar cipher as it is a lengthy process

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is another data hiding technique which can be used in conjunction with cryptography for the extra-secure method of protecting data.
((OPTION_A))	Cryptography

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Steganography
((OPTION_C))  This is optional	Tomography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Steganography is the technique of hiding data in another raw data. Steganography is another data hiding technique which can be used in conjunction with cryptography for an extra-secure method of protecting data.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is hiding of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Steganography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Steganography helps in hiding any form of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ tool permits security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Chorography
((OPTION_D))  This is optional	Steganography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	A steganography tool is a software tool that permits a security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main motive for using steganography is that hackers or other users can hide a secret message behind a _____

((OPTION_A)) THIS IS MANDATORY OPTION	special file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ordinary file
((OPTION_C)) This is optional	program file
((OPTION_D)) This is optional	encrypted file
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	The main motive for using steganography is that hackers or other users can hide a secret message behind ordinary files. Some steganography tools are SSuite Picsel, rSteg etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	People will normally think it as a normal/regular file and your secret message will pass on without any _____

((OPTION_A)) THIS IS MANDATORY OPTION	Suspicion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	cracking
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Steganography techniques help hackers or other users to conceal covert message behind regular files. People will normally think it as a normal/regular file and your secret message will pass on without any suspicion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	By using _____ you can diminish the chance of data leakage

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C)) This is optional	Chorography
((OPTION_D)) This is optional	Steganography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Hackers or other cyber criminals target ordinary files to hide different data or information within another data file. By using steganography, you can diminish the chance of data leakage.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Which of the following is a mode of operation for the Block ciphers in cryptography?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Electronic Code Book (ECB)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher Block Chaining (CBC)
((OPTION_C)) This is optional	Counter (CTR) mode
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	For which of the following should EBC (Electronic Code Book) process not be used for encryption?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	For large block sizes
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	For fixed block sizes
((OPTION_C)) This is optional	For small block sizes
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	It is preferred that the block size in the ECB technique must be greater than 64 bits. If not, the text is padded to make it of the required length. This is due to some particular words and phrases that may be reused again often so that the same repetitive part of ciphertext can emerge as mixed.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	Which of the following is the main disadvantage of the ECB (Electronic Code Book)?

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	It requires large block size
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Padding is done to make the plain text divisible into blocks of fixed size
((OPTION_C)) This is optional	It is prone to cryptanalysis since there is a direct relationship between plain text and cipher text.
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	In <u>ECB</u> , there lies a direct relation between the plain text and the ciphertext. Therefore, it is easy for an outsider to break the encryption logic and steal the data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options is not correct according to the definition of the Cipher Block Chaining (CBC)?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC is a mode of operation for stream ciphers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Initialization vector (IV) is used in CBC in the initial phase.
((OPTION_C)) This is optional	It has better resistive nature towards cryptanalysis than ECB
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<a href="#">CBC</a> which stands for Cipher Block chaining is a mode of operation for block ciphers and not for stream ciphers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following modes of operations can be followed for both stream ciphers as well as block ciphers?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC (Cipher Block Chaining)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECB (Electronic Code Book)
((OPTION_C)) This is optional	CFB (Cipher text Feed Back)
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	<b>CFB</b> is primarily a mode to derive some characteristics of a stream cipher from a block cipher on the cryptography in cryptoanalysis.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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<p>((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO</p>	<p>All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?</p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift rows</li> <li>iii. Mix columns</li> <li>iv. Add round key</li> </ul>
<p>((OPTION_A)) THIS IS MANDATORY OPTION</p>	<p>i</p>
<p>((OPTION_B)) THIS IS ALSO MANDATORY OPTION</p>	<p>iii</p>
<p>((OPTION_C)) This is optional</p>	<p>All of the mentioned</p>
<p>((OPTION_D)) This is optional</p>	<p>None of the mentioned</p>
<p>((OPTION_E)) This is optional. If optional keep empty so that system will skip this option</p>	
<p>((CORRECT_CHOICE)) Either A or B or C or D or E</p>	<p>B</p>
<p>((EXPLANATION)) This is also optional</p>	<p>In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.</p>

<p>((MARKS))</p>	<p>1</p>
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"The number of rounds in the AES algorithm depends upon the key size being used." Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	128 key size: 10 rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	192 key size: 12 rounds
((OPTION_C)) This is optional	256 key size: 14 rounds
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Avalanche effect
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Completeness
((OPTION_C)) This is optional	Both a. and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For the AES-128 algorithm there are _____ similar rounds and _____ round is different.
((OPTION_A)) THIS IS MANDATORY OPTION	2 pair of 5 similar rounds ; every alternate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	9 ; the last
((OPTION_C)) This is optional	8 ; the first and last
((OPTION_D)) This is optional	10 ; no
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the 4 operations are false for each round in the AES algorithm? i) Substitute Bytes ii) Shift Columns iii) Mix Rows iv) XOR Key
((OPTION_A)) THIS IS MANDATORY OPTION	i) only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii) iii) and iv)
((OPTION_C)) This is optional	ii) and iii)
((OPTION_D)) This is optional	only iv
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES rounds involve substitute bytes, shift rows, mix columns and addition of round key.

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There is an addition of round key before the start of the AES round algorithms.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In AES the final round contains only three transformations, and there is an initial single transformation (Add Round Key) before the first round which can be considered Round 0. Each transformation takes $4 \times 4$ matrixes as input and produces a $4 \times 4$ matrix as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1																
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the Shifted Row transformation for the matrix bellow?  <table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_A))  THIS IS MANDATORY OPTION	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	<table border="1"> <tr> <td>72</td><td>2B</td><td>D7</td><td>FE</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>63</td><td>AD</td><td>01</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	72	2B	D7	FE	A4	6B	6B	77	63	AD	01	F0	30	D7	AF	FE
72	2B	D7	FE														
A4	6B	6B	77														
63	AD	01	F0														
30	D7	AF	FE														
((OPTION_C))  This is optional	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>77</td><td>A4</td><td>6B</td><td>6B</td></tr> <tr> <td>F0</td><td>63</td><td>AD</td><td>01</td></tr> <tr> <td>FE</td><td>30</td><td>D7</td><td>AF</td></tr> </table>	FE	72	2B	D7	77	A4	6B	6B	F0	63	AD	01	FE	30	D7	AF
FE	72	2B	D7														
77	A4	6B	6B														
F0	63	AD	01														
FE	30	D7	AF														
((OPTION_D))  This is optional	<table border="1"> <tr> <td>D7</td><td>FE</td><td>72</td><td>2B</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>01</td><td>AD</td><td>63</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	D7	FE	72	2B	A4	6B	6B	77	01	AD	63	F0	30	D7	AF	FE
D7	FE	72	2B														
A4	6B	6B	77														
01	AD	63	F0														
30	D7	AF	FE														

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The Shift Rows transformation consists of: -Not shifting the first row of the state array at all. -Circularly shifting the second row by one byte to the left. -Circularly shifting the third row by two bytes to the left, and -Circularly shifting the last row by three bytes to the left.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not weak key in DES
((OPTION_A)) THIS IS MANDATORY OPTION	0x0101010101010101
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0xEFABFEFEFEFEFEFE
((OPTION_C)) This is optional	0x1F1F1F1F0E0E0E0E
((OPTION_D))	0xFFFFFFFFFFFFFF

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple-DES has _____ keys.
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	2
((OPTION_C)) This is optional	5
((OPTION_D))	4

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a encryption technique which uses two instance of DES on same plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	Double DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripple DES
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack which can be used to break through double DES.
((OPTION_A)) THIS IS MANDATORY OPTION	Brute force
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	meet-in-the middle
((OPTION_C)) This is optional	Timing
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple DES involve __
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption, Decryption, Decryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption ,Encryption, Encryption
((OPTION_C)) This is optional	Decryption ,Encryption, Decryption
((OPTION_D))	Encryption, Decryption, Encryption

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ involves feeding the successive output blocks from the underlying block cipher back to it
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	OFB
((OPTION_D))	CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is counter-based version of CFB mode without the feedback
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	counter
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below mode is independent of previous output
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	CFB
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Errors get propagated in all modes except ___and ___
((OPTION_A)) THIS IS MANDATORY OPTION	ECB,COUNTER
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC,COUNTER
((OPTION_C)) This is optional	CFB,COUNTER
((OPTION_D))	OFB,CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Patterns are not preserved in ___ mode
((OPTION_A)) THIS IS MANDATORY OPTION	CBC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CFB
((OPTION_C)) This is optional	Both CBC and CFB
((OPTION_D))	ECB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A small change in plaintext results in the very great change in the cipher text indicates which characteristic
((OPTION_A)) THIS IS MANDATORY OPTION	completeness
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Strong key
((OPTION_C)) This is optional	Avalanche effect
((OPTION_D))	All of the above

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ ciphers, the plaintext is processed one bit at a time i.e. one bit of plaintext is taken, and a series of operations is performed on it to generate one bit of cipher text.
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	More number of _____ provide more secure system in feistel cipher.
((OPTION_A)) THIS IS MANDATORY OPTION	rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	keys
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	Function
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The number of rounds used in a Feistel Cipher depends on desired security from the system. More number of rounds provide more secure system. But at the same time, more rounds mean the inefficient slow encryption and decryption processes..

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem _____ keys are used for encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different
((OPTION_C)) This is optional	Encryption Keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	In conventional cryptosystem, same keys are used for encryption and decryption where as in public key cryptosystem different keys are used.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem which is kept as public?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption keys
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption keys
((OPTION_C)) This is optional	Encryption & Decryption keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	In public key cryptosystem, the encryption keys are kept as public where as decryption keys are kept as secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptosystem uses same key for both encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which should be kept as a secret in public key cryptosystem?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption key
((OPTION_C)) This is optional	Encryption & Decryption key
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	In public key cryptosystem, Encryption is done using public key . decryption key needs to be kept as a secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Euler's totient function is determined by
((OPTION_A)) THIS IS MANDATORY OPTION	$pq$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(p-1)(q-1)$
((OPTION_C)) This is optional	$(p+1)(q+1)$
((OPTION_D)) This is optional	$p/q$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The Euler's totient function is determined by $(p-1)(q-1)$ , where p and q are kept hidden.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'?
((OPTION_A))  THIS IS MANDATORY OPTION	p and q should be divisible by $\Phi(n)$
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	p and q should be co-prime
((OPTION_C))  This is optional	p and q should be prime
((OPTION_D))  This is optional	p/q should give no remainder
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	'p' and 'q' should have large random values which are both prime numbers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.
((OPTION_A)) THIS IS MANDATORY OPTION	(p)/(q)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	(p)(q)
((OPTION_C)) This is optional	(p-1)(q-1)
((OPTION_D)) This is optional	(p+1)(q+1)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$\Phi(n) = (p-1)(q-1).$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	$\gcd(e, \Phi(n))=1$ ; and $1 < e < \Phi(n)$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $e=17$ . Apply RSA algorithm where message=5 and find the cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	C=80
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	C=92
((OPTION_C)) This is optional	C=56
((OPTION_D)) This is optional	C=23
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 209.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	54
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	43
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	24
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$n = pq = 11 \times 19 = 209$ . $C=M^e \text{ mod } n ; C=5^{17} \text{ mod } 209 ; C = 80 \text{ mod } 209$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	$n = 35; e = 5; C = 10$ . What is the plaintext (use RSA) ?
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	7
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Use RSA system to decrypt and get PT = 5.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where PT message=88 and thus find the CT.
((OPTION_A)) THIS IS MANDATORY OPTION	23
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64
((OPTION_C)) This is optional	11
((OPTION_D)) This is optional	54
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=88^7 \text{ mod } 187 ; C = 11 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where Cipher message=11 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	88
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	122
((OPTION_C)) This is optional	143
((OPTION_D)) This is optional	111
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=11^{23} \text{ mod } 187 ; C = 88 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an RSA system the public key of a given user is $e = 31$ , $n = 3599$ . What is the private key of this user?
((OPTION_A))  THIS IS MANDATORY OPTION	3031
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	2412
((OPTION_C))  This is optional	2432
((OPTION_D))  This is optional	1023
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	By trial and error, we determine that $p = 59$ and $q = 61$ . Hence $f(n) = 58 \times 60 = 3480$ . Then, using the extended Euclidean algorithm, we find that the multiplicative inverse of 31 modulo $f(n)$ is 3031

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compute private key (d, p, q) given public key (e=23, n=233 ´ 241=56,153).
((OPTION_A)) THIS IS MANDATORY OPTION	35212
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	12543
((OPTION_C)) This is optional	19367
((OPTION_D)) This is optional	32432
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Since n=233 ´ 241=56,153, p=233 and q=241 $f(n) = (p - 1)(q - 1) = 55,680$ Using Extended Euclidean algorithm, we obtain $d = 23^{-1} \text{ mod } 55680 = 19,367.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a RSA cryptosystem a particular A uses two prime numbers $p = 13$ and $q = 17$ to generate her public and private keys. If the public key of A is 35. Then the private key of A is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	13
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	17
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In an RSA cryptosystem, for public key: $\text{GCD}(\phi(n), e) = 1$ And, for private key:

	$(e * d) \bmod \phi(n) = 1$ Where, $\phi(n) = (p - 1)*(q - 1) = (13 - 1)(17 - 1) = 12 * 16 = 192$ Such that $1 < e, d < \phi(n)$ Therefore, the private key is: $(35 * d) \bmod \phi(n) = 1$ $d = 11$
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA public key cryptosystem, which one of the following numbers will always be largest?
((OPTION_A)) THIS IS MANDATORY OPTION	E
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	N
((OPTION_C)) This is optional	P
((OPTION_D)) This is optional	Q
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The number $n$ is generated as the product of the two large prime numbers $p$ and $q$ . Therefore, $n$ must always be greater than both $p$ and $q$ . Furthermore, it is an algorithm constraint that $e$ must be chosen such that $e$ is smaller than $n$ . Therefore, in RSA cryptography $n$ is always the largest of the four variables shown in the options to this question.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If Richard wants to send an encrypted message to Sue using a public key cryptosystem, which key does he use to encrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Richard must encrypt the message using Sue's public key so that Sue can decrypt it using her private key. If he encrypted the message with his own public key, the recipient would need to know Richard's private key to decrypt the message. If he encrypted it with his own private key, any user could decrypt the message using Richard's freely available public key. Richard could not encrypt the message using Sue's private key because he does not have access to it. If he did, any user could decrypt it using Sue's freely available public key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Acme Widgets currently uses a 1,024-bit RSA encryption standard companywide. The company plans to convert from RSA to an elliptic curve cryptosystem. If it wishes to maintain the same cryptographic strength, what ECC key length should it use?
((OPTION_A)) THIS IS MANDATORY OPTION	160 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	512 bits
((OPTION_C)) This is optional	1,024 bits
((OPTION_D)) This is optional	2,048 bits

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The elliptic curve cryptosystem requires significantly shorter keys to achieve encryption that would be the same strength as encryption achieved with the RSA encryption algorithm. A 1,024-bit RSA key is cryptographically equivalent to a 160-bit elliptic curve cryptosystem key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Richard received an encrypted message sent to him from Sue. Which key should he use to decrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sue would have encrypted the message using Richard's public key. Therefore, Richard needs to use the complementary key in the key pair, his private key, to decrypt the message.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One commonly used public-key cryptography method is the _____ algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the objective of Diffie-Hellman key exchange?
((OPTION_A)) THIS IS MANDATORY OPTION	To protect encrypted data from man-in-the-middle attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	To perform mutual authentication on both sides
((OPTION_C)) This is optional	To prove to another party that one holds a secret key without revealing it
((OPTION_D)) This is optional	To establish a shared secret key on both sides

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The security of RSA encryption relies on which assumption?
((OPTION_A)) THIS IS MANDATORY OPTION	It is computationally infeasible to compute a GCD of two large numbers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is computationally infeasible to factor a large number.
((OPTION_C)) This is optional	It is computationally infeasible to test whether a large number is prime.
((OPTION_D)) This is optional	It is computationally infeasible to compute a square modulo n.

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is asymmetric cryptography?
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	Both ECC and RSA
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below requires less hardware capacity because of less key size
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Diffie Hellman is _____
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption algorithm
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	D-H is key exchange algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Timing attack on RSA can be avoided by __
((OPTION_A)) THIS IS MANDATORY OPTION	Padding extra bits in message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Adding delays
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below algorithm is used in cryptocurrency?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AES
((OPTION_C)) This is optional	ECC
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When a hash function is used to provide message authentication, the hash function value is called to as:
((OPTION_A)) THIS IS MANDATORY OPTION	Message Field
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Message Digest
((OPTION_C)) This is optional	Message Score
((OPTION_D)) This is optional	Message Leap

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	We know that the hash function providing message authentication is referred to as message digest in cryptography.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following are used to create a message digest  a. RSA b. SHA-1 c. DES d. MD5
((OPTION_A)) THIS IS MANDATORY OPTION	A&B
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	B&C
((OPTION_C)) This is optional	A&C

((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	They are Message digest algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the output of a cryptographic hash function?
((OPTION_A)) THIS IS MANDATORY OPTION	A variable set of bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A fixed set of bits, derived from one-way mathematical operations
((OPTION_C)) This is optional	An output which may be easily discovered by an adversary

((OPTION_D)) This is optional	Outputs of such functions are of no importance
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest algorithms are primarily used to provide _____
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	inegrity

((OPTION_D)) This is optional	authorization
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a message digest algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IDEA
((OPTION_C)) This is optional	MD5

((OPTION_D)) This is optional	RSA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the data must arrive at the receiver exactly as sent.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the receiver is ensured that the message is coming from the intended sender, not an imposter.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ function creates a message digest out of a message
((OPTION_A)) THIS IS MANDATORY OPTION	encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	hash

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a trusted third party that assigns a symmetric key to two parties.
((OPTION_A)) THIS IS MANDATORY OPTION	Public directory
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Certificate authority
((OPTION_C)) This is optional	Both

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature provides _____.
((OPTION_A)) THIS IS MANDATORY OPTION	authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nonrepudiation
((OPTION_C)) This is optional	both (a) and (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature needs a(n) _____ system
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a federal or state organization that binds a public key to an entity and issues a certificate.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	means that a sender must not be able to deny sending a message that he sent.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication

((OPTION_D)) This is optional	Nonrepudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is a popular session key creator protocol that requires an authentication server and a ticket-granting server.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The MD5 is a message digest algorithm developed by
((OPTION_A)) THIS IS MANDATORY OPTION	Ron Rivest.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	WhiteField Diffie.
((OPTION_C)) This is optional	Martin Hellman.

((OPTION_D)) This is optional	Diffie-Hellman.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 is quite fast and produces _____ message digests
((OPTION_A)) THIS IS MANDATORY OPTION	512 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1024 bits
((OPTION_C)) This is optional	128 bits

((OPTION_D)) This is optional	64 bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The first step of MD5 is
((OPTION_A)) THIS IS MANDATORY OPTION	add padding bits to original messsge
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	adding append length bits
((OPTION_C)) This is optional	divide the input into 512 bit blocks

((OPTION_D)) This is optional	compression
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the process block divides the 512 bits into _____ sub blocks.
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	24
((OPTION_C)) This is optional	32

((OPTION_D)) This is optional	84
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which financial institutions have a relationship with merchants for processing payment card authorizations and payments?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Acquirer
((OPTION_C)) This is optional	Merchant

((OPTION_D)) This is optional	Dealer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following contains the order information such as which items are being purchased?
((OPTION_A)) THIS IS MANDATORY OPTION	PI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	OI
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Payment information can be encrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	customer's private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	merchant public key
((OPTION_C)) This is optional	one-time session key.

((OPTION_D)) This is optional	customer's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature envelope is decrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	merchant private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	payment's private key
((OPTION_C)) This is optional	payment public key

((OPTION_D)) This is optional	merchant's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ will ensure the merchant and their payment information
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Dual signature

((OPTION_D)) This is optional	Certificate authority
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SET provides an authentication with the help of _____
((OPTION_A)) THIS IS MANDATORY OPTION	dual signature
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	digital certificate
((OPTION_C)) This is optional	payment's public key

((OPTION_D)) This is optional	payment's private key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are very crucial for success of RSA algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	Integers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Prime numbers
((OPTION_C)) This is optional	Negative number

((OPTION_D)) This is optional	Fraction
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ acts as financial institutions who provides a payment card to a card holder
((OPTION_A)) THIS IS MANDATORY OPTION	payment gateway
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	card holder
((OPTION_C)) This is optional	acquirer

((OPTION_D)) This is optional	issuer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	ISSUER means Bank

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who will be responsible for processing the payment from the customer's account to the merchant account?
((OPTION_A)) THIS IS MANDATORY OPTION	Acquirer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Issuer

((OPTION_D)) This is optional	Payment gateway
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cardholder combines the PIMD and OIMD and hashes them together to form
((OPTION_A)) THIS IS MANDATORY OPTION	OPMD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POMD
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which process will ensure that the issues of the credit card is an approved transactions?
((OPTION_A)) THIS IS MANDATORY OPTION	Payment capture
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Payment authorization
((OPTION_C)) This is optional	Purchase request

((OPTION_D)) This is optional	Purchase reply
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is used for hiding the payment information from the merchant.
((OPTION_A)) THIS IS MANDATORY OPTION	SET
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	SHTTP

((OPTION_D)) This is optional	TSP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A __word buffer is used to compute the message digest in MD5
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5

((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	4 WORD A,B,C,D

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the message is <b>padded</b> so that its length is divisible by ____
((OPTION_A)) THIS IS MANDATORY OPTION	32
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	128
((OPTION_C)) This is optional	512

((OPTION_D)) This is optional	1024
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 should meet requirements:
((OPTION_A)) THIS IS MANDATORY OPTION	It is impossible to generate two inputs that cannot produce the same hash function
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is impossible to generate a message having the same hash value
((OPTION_C)) This is optional	Both of the above

((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 takes an input of ___ size and produces an output if a 128-bit hash value
((OPTION_A)) THIS IS MANDATORY OPTION	Any
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Multiple of 512
((OPTION_C)) This is optional	Multiple of 128

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following best describes sniffing?
((OPTION_A)) THIS IS MANDATORY OPTION	Gathering packets to locate IP addresses, in order to initiate a session hijacking attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Analyzing packets in order to locate the sequence number to start a session hijack
((OPTION_C)) This is optional	Monitoring TCP sessions in order to initiate a session-hijacking attack

((OPTION_D)) This is optional	Locating a host susceptible to a session-hijack attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sniffing is usually used to locate the sequence number, which is necessary for a session hijack.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The secret key between members needs to be created as a _____ key when two members contact Kerberos system
((OPTION_A)) THIS IS MANDATORY OPTION	Public
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session
((OPTION_C))	complimentary

This is optional	
((OPTION_D))	None of these
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main components of Kerberos are:
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	database

This is optional	
((OPTION_D))	All of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ performs the initial authentication and ticket for Ticket Granting Service
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	Database

This is optional	
((OPTION_D))	Kerberos
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Authentication Server verifies access right of users in __
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TG server
((OPTION_C))	Database

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ issues the ticket for the Server
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	DB

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is primarily used for _____
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))	confidentiality

This is optional	
((OPTION_D))	authorization
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The KDC encrypts the TGT with a password that only the _____ knows.
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	Server

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Because no one else needs to be able to see the contents.  It's for the server to keep track of the client

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The essence of Kerberos' system is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	One way authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity

((OPTION_C)) This is optional	Mutual authentication
((OPTION_D)) This is optional	Public authentication
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not an element/field of the X.509 certificates?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer Name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Serial Modifier

((OPTION_C)) This is optional	Issuer unique Identifier
((OPTION_D)) This is optional	Signature
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 certificate recommends which cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	DES

((OPTION_C)) This is optional	AES
((OPTION_D)) This is optional	Rabin
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The standard used in digital certificates that defines its structure, fields, and Values is
((OPTION_A)) THIS IS MANDATORY OPTION	Kerberos
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	End to end encryption

((OPTION_C)) This is optional	X.509
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 Certificates includes
((OPTION_A)) THIS IS MANDATORY OPTION	Version
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	signature algorithm identifier

((OPTION_C)) This is optional	period of validity
((OPTION_D)) This is optional	extension fields
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CH OICE)) Either A or B or C or D or E	E
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ defines a framework for the provision of authentication services by the X.500 directory
((OPTION_A)) THIS IS MANDATORY OPTION	X.509
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.508

((OPTION_C)) This is optional	X.505
((OPTION_D)) This is optional	X.609
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature is a mathematical technique used to validate the _____ and _____ of a message, software or digital document
((OPTION_A)) THIS IS MANDATORY OPTION	Authenticity, integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity, confidentiality

((OPTION_C)) This is optional	Integrity,non-repudiation
((OPTION_D)) This is optional	Authenticity,confidentiality
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature involves ____ and ____
((OPTION_A)) THIS IS MANDATORY OPTION	Signature verification ,validation
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Signature creation,verification

((OPTION_C)) This is optional	Signature creation,deletion
((OPTION_D)) This is optional	Signature validation,modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest is computed by applying hash function on the message and then message digest is encrypted using _____ key of sender to form the digital signature.
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Session
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature , Receiver decrypts the digital signature using the _____ key of sender
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Secret
((OPTION_D)) This is optional	Session
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature, The message digest computed by ___ and the message digest (got by decryption on digital signature) need to be ___ for ensuring integrity
((OPTION_A)) THIS IS MANDATORY OPTION	Receiver,same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Receiver,different

((OPTION_C)) This is optional	Sender,same
((OPTION_D)) This is optional	Sender,different
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is like a fingerprint or an attachment to a digital document that ensures its authenticity and integrity.
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Digital signature

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature follows _____
((OPTION_A)) THIS IS MANDATORY OPTION	Digital Signature Standard (DSS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.509 standard format

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In diffie-hellman algorithm, if Alice and Bob wish to communicate with each other, they first agree between them a large prime number n, and ____ g
((OPTION_A)) THIS IS MANDATORY OPTION	Generator
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Small prime number

((OPTION_C)) This is optional	Natural number
((OPTION_D)) This is optional	Factorial
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm if $X_a$ is private key of user then public key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$g^{X_a} \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$n^{X_a} \text{ mod } n$

((OPTION_C)) This is optional	$g^n \bmod p$
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, ____ keys of each other should be known
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session

((OPTION_C)) This is optional	Public
((OPTION_D)) This is optional	No
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm,shared secret key is calculated by _____
((OPTION_A)) THIS IS MANDATORY OPTION	$(g^a \text{ mod } n)^b \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(g^b \text{ mod } n)^a \text{ mod } n$

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, the resulting shared secret will be the ___ every time
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different

((OPTION_C)) This is optional	Maybe same
((OPTION_D)) This is optional	Can't say
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ the first widely used method of safely developing and exchanging keys over an insecure channel
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSS

((OPTION_C)) This is optional	Diffie Hellman
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suppose that two parties A and B wish to set up a common secret key (D-H key) between themselves using the Diffie Hellman key exchange technique. They agree on 7 as the modulus and 3 as the primitive root. Party A chooses 2 and party B chooses 5 as their respective secrets. Their D-H key is
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4

((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prime value $q = 17$ and primitive root $= 5$ . If Alice's secret key is 4 and Bob's secret key is 6, what is the shared secret key they exchanged?
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	17

((OPTION_C)) This is optional	18
((OPTION_D)) This is optional	19
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each round of MD5 consist of ____ operations
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15

((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	18
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each buffer of MD5 algorithm is ____ bit long
((OPTION_A))  THIS IS MANDATORY OPTION	32
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	64

((OPTION_C)) This is optional	128
((OPTION_D)) This is optional	512
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	RSA is _____ cryptography
((OPTION_A)) THIS IS MANDATORY OPTION	Asymmetric
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Value generated by hash function is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Message digest
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hash

((OPTION_C)) This is optional	MAC
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not service of digital signature
((OPTION_A))  THIS IS MANDATORY OPTION	Authentication to message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data integrity

((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	____ digitally signs this entire information and includes digital signature in the certificate
((OPTION_A)) THIS IS MANDATORY OPTION	CA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	KDC

((OPTION_C)) This is optional	PKI
((OPTION_D)) This is optional	DB
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA ,e is used as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Euler's totient
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, d is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key
((OPTION_C)) This is optional	Totient function
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem _____ keys are used for encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different
((OPTION_C)) This is optional	Encryption Keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	In conventional cryptosystem, same keys are used for encryption and decryption where as in public key cryptosystem different keys are used.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem which is kept as public?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption keys
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption keys
((OPTION_C)) This is optional	Encryption & Decryption keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	In public key cryptosystem, the encryption keys are kept as public where as decryption keys are kept as secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptosystem uses same key for both encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which should be kept as a secret in public key cryptosystem?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption key
((OPTION_C)) This is optional	Encryption & Decryption key
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	In public key cryptosystem, Encryption is done using public key . decryption key needs to be kept as a secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Euler's totient function is determined by
((OPTION_A)) THIS IS MANDATORY OPTION	$pq$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(p-1)(q-1)$
((OPTION_C)) This is optional	$(p+1)(q+1)$
((OPTION_D)) This is optional	$p/q$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The Euler's totient function is determined by $(p-1)(q-1)$ , where p and q are kept hidden.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'?
((OPTION_A))  THIS IS MANDATORY OPTION	p and q should be divisible by $\Phi(n)$
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	p and q should be co-prime
((OPTION_C))  This is optional	p and q should be prime
((OPTION_D))  This is optional	p/q should give no remainder
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	'p' and 'q' should have large random values which are both prime numbers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.
((OPTION_A)) THIS IS MANDATORY OPTION	(p)/(q)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	(p)(q)
((OPTION_C)) This is optional	(p-1)(q-1)
((OPTION_D)) This is optional	(p+1)(q+1)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$\Phi(n) = (p-1)(q-1).$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	$\gcd(e, \Phi(n))=1$ ; and $1 < e < \Phi(n)$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $e=17$ . Apply RSA algorithm where message=5 and find the cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	C=80
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	C=92
((OPTION_C)) This is optional	C=56
((OPTION_D)) This is optional	C=23
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 209.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	54
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	43
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	24
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$n = pq = 11 \times 19 = 209$ . $C=M^e \text{ mod } n ; C=5^{17} \text{ mod } 209 ; C = 80 \text{ mod } 209$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	$n = 35; e = 5; C = 10$ . What is the plaintext (use RSA) ?
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	7
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Use RSA system to decrypt and get PT = 5.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where PT message=88 and thus find the CT.
((OPTION_A)) THIS IS MANDATORY OPTION	23
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64
((OPTION_C)) This is optional	11
((OPTION_D)) This is optional	54
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=88^7 \text{ mod } 187 ; C = 11 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where Cipher message=11 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	88
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	122
((OPTION_C)) This is optional	143
((OPTION_D)) This is optional	111
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=11^{23} \text{ mod } 187 ; C = 88 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an RSA system the public key of a given user is $e = 31$ , $n = 3599$ . What is the private key of this user?
((OPTION_A))  THIS IS MANDATORY OPTION	3031
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	2412
((OPTION_C))  This is optional	2432
((OPTION_D))  This is optional	1023
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	By trial and error, we determine that $p = 59$ and $q = 61$ . Hence $f(n) = 58 \times 60 = 3480$ . Then, using the extended Euclidean algorithm, we find that the multiplicative inverse of 31 modulo $f(n)$ is 3031

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compute private key (d, p, q) given public key (e=23, n=233 ´ 241=56,153).
((OPTION_A)) THIS IS MANDATORY OPTION	35212
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	12543
((OPTION_C)) This is optional	19367
((OPTION_D)) This is optional	32432
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Since n=233 ´ 241=56,153, p=233 and q=241 $f(n) = (p - 1)(q - 1) = 55,680$ Using Extended Euclidean algorithm, we obtain $d = 23^{-1} \text{ mod } 55680 = 19,367.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a RSA cryptosystem a particular A uses two prime numbers $p = 13$ and $q = 17$ to generate her public and private keys. If the public key of A is 35. Then the private key of A is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	13
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	17
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In an RSA cryptosystem, for public key: $\text{GCD}(\phi(n), e) = 1$ And, for private key:

	$(e * d) \bmod \phi(n) = 1$ Where, $\phi(n) = (p - 1)*(q - 1) = (13 - 1)(17 - 1) = 12 * 16 = 192$ Such that $1 < e, d < \phi(n)$ Therefore, the private key is: $(35 * d) \bmod \phi(n) = 1$ $d = 11$
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA public key cryptosystem, which one of the following numbers will always be largest?
((OPTION_A)) THIS IS MANDATORY OPTION	E
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	N
((OPTION_C)) This is optional	P
((OPTION_D)) This is optional	Q
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The number n is generated as the product of the two large prime numbers p and q. Therefore, n must always be greater than both p and q. Furthermore, it is an algorithm constraint that e must be chosen such that e is smaller than n. Therefore, in RSA cryptography n is always the largest of the four variables shown in the options to this question.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If Richard wants to send an encrypted message to Sue using a public key cryptosystem, which key does he use to encrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Richard must encrypt the message using Sue's public key so that Sue can decrypt it using her private key. If he encrypted the message with his own public key, the recipient would need to know Richard's private key to decrypt the message. If he encrypted it with his own private key, any user could decrypt the message using Richard's freely available public key. Richard could not encrypt the message using Sue's private key because he does not have access to it. If he did, any user could decrypt it using Sue's freely available public key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Acme Widgets currently uses a 1,024-bit RSA encryption standard companywide. The company plans to convert from RSA to an elliptic curve cryptosystem. If it wishes to maintain the same cryptographic strength, what ECC key length should it use?
((OPTION_A)) THIS IS MANDATORY OPTION	160 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	512 bits
((OPTION_C)) This is optional	1,024 bits
((OPTION_D)) This is optional	2,048 bits

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The elliptic curve cryptosystem requires significantly shorter keys to achieve encryption that would be the same strength as encryption achieved with the RSA encryption algorithm. A 1,024-bit RSA key is cryptographically equivalent to a 160-bit elliptic curve cryptosystem key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Richard received an encrypted message sent to him from Sue. Which key should he use to decrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sue would have encrypted the message using Richard's public key. Therefore, Richard needs to use the complementary key in the key pair, his private key, to decrypt the message.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One commonly used public-key cryptography method is the _____ algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the objective of Diffie-Hellman key exchange?
((OPTION_A)) THIS IS MANDATORY OPTION	To protect encrypted data from man-in-the-middle attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	To perform mutual authentication on both sides
((OPTION_C)) This is optional	To prove to another party that one holds a secret key without revealing it
((OPTION_D)) This is optional	To establish a shared secret key on both sides

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The security of RSA encryption relies on which assumption?
((OPTION_A)) THIS IS MANDATORY OPTION	It is computationally infeasible to compute a GCD of two large numbers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is computationally infeasible to factor a large number.
((OPTION_C)) This is optional	It is computationally infeasible to test whether a large number is prime.
((OPTION_D)) This is optional	It is computationally infeasible to compute a square modulo n.

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is asymmetric cryptography?
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	Both ECC and RSA
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below requires less hardware capacity because of less key size
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Diffie Hellman is _____
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption algorithm
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	D-H is key exchange algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Timing attack on RSA can be avoided by __
((OPTION_A)) THIS IS MANDATORY OPTION	Padding extra bits in message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Adding delays
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below algorithm is used in cryptocurrency?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AES
((OPTION_C)) This is optional	ECC
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When a hash function is used to provide message authentication, the hash function value is called to as:
((OPTION_A)) THIS IS MANDATORY OPTION	Message Field
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Message Digest
((OPTION_C)) This is optional	Message Score
((OPTION_D)) This is optional	Message Leap

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	We know that the hash function providing message authentication is referred to as message digest in cryptography.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following are used to create a message digest  a. RSA b. SHA-1 c. DES d. MD5
((OPTION_A)) THIS IS MANDATORY OPTION	A&B
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	B&C
((OPTION_C)) This is optional	A&C

((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	They are Message digest algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the output of a cryptographic hash function?
((OPTION_A)) THIS IS MANDATORY OPTION	A variable set of bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A fixed set of bits, derived from one-way mathematical operations
((OPTION_C)) This is optional	An output which may be easily discovered by an adversary

((OPTION_D)) This is optional	Outputs of such functions are of no importance
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest algorithms are primarily used to provide _____
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	inegrity

((OPTION_D)) This is optional	authorization
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a message digest algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IDEA
((OPTION_C)) This is optional	MD5

((OPTION_D)) This is optional	RSA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the data must arrive at the receiver exactly as sent.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the receiver is ensured that the message is coming from the intended sender, not an imposter.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ function creates a message digest out of a message
((OPTION_A)) THIS IS MANDATORY OPTION	encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	hash

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a trusted third party that assigns a symmetric key to two parties.
((OPTION_A)) THIS IS MANDATORY OPTION	Public directory
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Certificate authority
((OPTION_C)) This is optional	Both

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature provides _____.
((OPTION_A)) THIS IS MANDATORY OPTION	authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nonrepudiation
((OPTION_C)) This is optional	both (a) and (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature needs a(n) _____ system
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a federal or state organization that binds a public key to an entity and issues a certificate.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	means that a sender must not be able to deny sending a message that he sent.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication

((OPTION_D)) This is optional	Nonrepudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is a popular session key creator protocol that requires an authentication server and a ticket-granting server.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The MD5 is a message digest algorithm developed by
((OPTION_A)) THIS IS MANDATORY OPTION	Ron Rivest.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	WhiteField Diffie.
((OPTION_C)) This is optional	Martin Hellman.

((OPTION_D)) This is optional	Diffie-Hellman.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 is quite fast and produces _____ message digests
((OPTION_A)) THIS IS MANDATORY OPTION	512 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1024 bits
((OPTION_C)) This is optional	128 bits

((OPTION_D)) This is optional	64 bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The first step of MD5 is
((OPTION_A)) THIS IS MANDATORY OPTION	add padding bits to original messsge
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	adding append length bits
((OPTION_C)) This is optional	divide the input into 512 bit blocks

((OPTION_D)) This is optional	compression
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the process block divides the 512 bits into _____ sub blocks.
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	24
((OPTION_C)) This is optional	32

((OPTION_D)) This is optional	84
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which financial institutions have a relationship with merchants for processing payment card authorizations and payments?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Acquirer
((OPTION_C)) This is optional	Merchant

((OPTION_D)) This is optional	Dealer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following contains the order information such as which items are being purchased?
((OPTION_A)) THIS IS MANDATORY OPTION	PI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	OI
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Payment information can be encrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	customer's private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	merchant public key
((OPTION_C)) This is optional	one-time session key.

((OPTION_D)) This is optional	customer's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature envelope is decrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	merchant private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	payment's private key
((OPTION_C)) This is optional	payment public key

((OPTION_D)) This is optional	merchant's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ will ensure the merchant and their payment information
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Dual signature

((OPTION_D)) This is optional	Certificate authority
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SET provides an authentication with the help of _____
((OPTION_A)) THIS IS MANDATORY OPTION	dual signature
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	digital certificate
((OPTION_C)) This is optional	payment's public key

((OPTION_D)) This is optional	payment's private key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are very crucial for success of RSA algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	Integers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Prime numbers
((OPTION_C)) This is optional	Negative number

((OPTION_D)) This is optional	Fraction
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ acts as financial institutions who provides a payment card to a card holder
((OPTION_A)) THIS IS MANDATORY OPTION	payment gateway
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	card holder
((OPTION_C)) This is optional	acquirer

((OPTION_D)) This is optional	issuer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	ISSUER means Bank

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who will be responsible for processing the payment from the customer's account to the merchant account?
((OPTION_A)) THIS IS MANDATORY OPTION	Acquirer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Issuer

((OPTION_D)) This is optional	Payment gateway
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cardholder combines the PIMD and OIMD and hashes them together to form
((OPTION_A)) THIS IS MANDATORY OPTION	OPMD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POMD
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which process will ensure that the issues of the credit card is an approved transactions?
((OPTION_A)) THIS IS MANDATORY OPTION	Payment capture
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Payment authorization
((OPTION_C)) This is optional	Purchase request

((OPTION_D)) This is optional	Purchase reply
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is used for hiding the payment information from the merchant.
((OPTION_A)) THIS IS MANDATORY OPTION	SET
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	SHTTP

((OPTION_D)) This is optional	TSP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A __word buffer is used to compute the message digest in MD5
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5

((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	4 WORD A,B,C,D

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the message is <b>padded</b> so that its length is divisible by ____
((OPTION_A)) THIS IS MANDATORY OPTION	32
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	128
((OPTION_C)) This is optional	512

((OPTION_D)) This is optional	1024
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 should meet requirements:
((OPTION_A)) THIS IS MANDATORY OPTION	It is impossible to generate two inputs that cannot produce the same hash function
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is impossible to generate a message having the same hash value
((OPTION_C)) This is optional	Both of the above

((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 takes an input of ___ size and produces an output if a 128-bit hash value
((OPTION_A)) THIS IS MANDATORY OPTION	Any
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Multiple of 512
((OPTION_C)) This is optional	Multiple of 128

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following best describes sniffing?
((OPTION_A)) THIS IS MANDATORY OPTION	Gathering packets to locate IP addresses, in order to initiate a session hijacking attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Analyzing packets in order to locate the sequence number to start a session hijack
((OPTION_C)) This is optional	Monitoring TCP sessions in order to initiate a session-hijacking attack

((OPTION_D)) This is optional	Locating a host susceptible to a session-hijack attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sniffing is usually used to locate the sequence number, which is necessary for a session hijack.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The secret key between members needs to be created as a _____ key when two members contact Kerberos system
((OPTION_A)) THIS IS MANDATORY OPTION	Public
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session
((OPTION_C))	complimentary

This is optional	
((OPTION_D))	None of these
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main components of Kerberos are:
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	database

This is optional	
((OPTION_D))	All of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ performs the initial authentication and ticket for Ticket Granting Service
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	Database

This is optional	
((OPTION_D))	Kerberos
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Authentication Server verifies access right of users in __
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TG server
((OPTION_C))	Database

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ issues the ticket for the Server
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	DB

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is primarily used for _____
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))	confidentiality

This is optional	
((OPTION_D))	authorization
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The KDC encrypts the TGT with a password that only the _____ knows.
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	Server

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Because no one else needs to be able to see the contents.  It's for the server to keep track of the client

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The essence of Kerberos' system is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	One way authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity

((OPTION_C)) This is optional	Mutual authentication
((OPTION_D)) This is optional	Public authentication
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not an element/field of the X.509 certificates?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer Name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Serial Modifier

((OPTION_C)) This is optional	Issuer unique Identifier
((OPTION_D)) This is optional	Signature
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 certificate recommends which cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	DES

((OPTION_C)) This is optional	AES
((OPTION_D)) This is optional	Rabin
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The standard used in digital certificates that defines its structure, fields, and Values is
((OPTION_A)) THIS IS MANDATORY OPTION	Kerberos
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	End to end encryption

((OPTION_C)) This is optional	X.509
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 Certificates includes
((OPTION_A)) THIS IS MANDATORY OPTION	Version
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	signature algorithm identifier

((OPTION_C)) This is optional	period of validity
((OPTION_D)) This is optional	extension fields
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CH OICE)) Either A or B or C or D or E	E
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ defines a framework for the provision of authentication services by the X.500 directory
((OPTION_A)) THIS IS MANDATORY OPTION	X.509
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.508

((OPTION_C)) This is optional	X.505
((OPTION_D)) This is optional	X.609
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature is a mathematical technique used to validate the _____ and _____ of a message, software or digital document
((OPTION_A)) THIS IS MANDATORY OPTION	Authenticity, integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity, confidentiality

((OPTION_C)) This is optional	Integrity,non-repudiation
((OPTION_D)) This is optional	Authenticity,confidentiality
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature involves ____ and ____
((OPTION_A)) THIS IS MANDATORY OPTION	Signature verification ,validation
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Signature creation,verification

((OPTION_C)) This is optional	Signature creation,deletion
((OPTION_D)) This is optional	Signature validation,modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest is computed by applying hash function on the message and then message digest is encrypted using _____ key of sender to form the digital signature.
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Session
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature , Receiver decrypts the digital signature using the _____ key of sender
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Secret
((OPTION_D)) This is optional	Session
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature, The message digest computed by ___ and the message digest (got by decryption on digital signature) need to be ___ for ensuring integrity
((OPTION_A)) THIS IS MANDATORY OPTION	Receiver,same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Receiver,different

((OPTION_C)) This is optional	Sender,same
((OPTION_D)) This is optional	Sender,different
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is like a fingerprint or an attachment to a digital document that ensures its authenticity and integrity.
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Digital signature

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature follows _____
((OPTION_A)) THIS IS MANDATORY OPTION	Digital Signature Standard (DSS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.509 standard format

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In diffie-hellman algorithm, if Alice and Bob wish to communicate with each other, they first agree between them a large prime number n, and ____ g
((OPTION_A)) THIS IS MANDATORY OPTION	Generator
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Small prime number

((OPTION_C)) This is optional	Natural number
((OPTION_D)) This is optional	Factorial
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm if $X_a$ is private key of user then public key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$g^{X_a} \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$n^{X_a} \text{ mod } n$

((OPTION_C)) This is optional	$g^n \bmod p$
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, ____ keys of each other should be known
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session

((OPTION_C)) This is optional	Public
((OPTION_D)) This is optional	No
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm,shared secret key is calculated by _____
((OPTION_A)) THIS IS MANDATORY OPTION	$(g^a \text{ mod } n)^b \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(g^b \text{ mod } n)^a \text{ mod } n$

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, the resulting shared secret will be the ___ every time
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different

((OPTION_C)) This is optional	Maybe same
((OPTION_D)) This is optional	Can't say
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ the first widely used method of safely developing and exchanging keys over an insecure channel
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSS

((OPTION_C)) This is optional	Diffie Hellman
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suppose that two parties A and B wish to set up a common secret key (D-H key) between themselves using the Diffie Hellman key exchange technique. They agree on 7 as the modulus and 3 as the primitive root. Party A chooses 2 and party B chooses 5 as their respective secrets. Their D-H key is
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4

((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prime value $q = 17$ and primitive root $= 5$ . If Alice's secret key is 4 and Bob's secret key is 6, what is the shared secret key they exchanged?
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	17

((OPTION_C)) This is optional	18
((OPTION_D)) This is optional	19
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each round of MD5 consist of ____ operations
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15

((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	18
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each buffer of MD5 algorithm is ____ bit long
((OPTION_A))  THIS IS MANDATORY OPTION	32
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	64

((OPTION_C)) This is optional	128
((OPTION_D)) This is optional	512
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	RSA is _____ cryptography
((OPTION_A)) THIS IS MANDATORY OPTION	Asymmetric
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Value generated by hash function is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Message digest
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hash

((OPTION_C)) This is optional	MAC
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not service of digital signature
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication to message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data integrity

((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ digitally signs this entire information and includes digital signature in the certificate
((OPTION_A)) THIS IS MANDATORY OPTION	CA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	KDC

((OPTION_C)) This is optional	PKI
((OPTION_D)) This is optional	DB
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA ,e is used as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Euler's totient
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, d is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key
((OPTION_C)) This is optional	Totient function
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Collection of protocol designed by IETF
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Operation in Tunnel mode
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects information in
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec in which mode does not protect IP header
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which mode is used when we need host to host protection
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects the whole IP packets
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec defines two protocol
((OPTION_A)) THIS IS MANDATORY OPTION	AH, SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP, ASP
((OPTION_C)) This is optional	AH, ESP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Authentication at the IP header
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES AUTHENTICATION OR ENCRYPTION OR BOTH FOR PACKET AT IP LEVEL
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ESP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSEC USES A SET OF SA CALLED
((OPTION_A)) THIS IS MANDATORY OPTION	SAD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SAB
((OPTION_C)) This is optional	SADB
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol to provide security for inbound and outbound
((OPTION_A)) THIS IS MANDATORY OPTION	SA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CA
((OPTION_C)) This is optional	KDC
((OPTION_D)) This is optional	IKE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE creates SA for
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP
((OPTION_C)) This is optional	IPSec
((OPTION_D)) This is optional	VP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE based on other how many protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Two
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Three
((OPTION_C)) This is optional	Four
((OPTION_D)) This is optional	five
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE uses
((OPTION_A)) THIS IS MANDATORY OPTION	OAKLEY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SKEME
((OPTION_C)) This is optional	ISKAMP
((OPTION_D)) This is optional	ALL ABOVE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network is used in an organization
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Semi private
((OPTION_D)) This is optional	Semi publik
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Private network that uses an internet model
((OPTION_A)) THIS IS MANDATORY OPTION	intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a network that allows authorized access from outside
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Internet authorities have reserved address for
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is provides privacy for LAN
((OPTION_A)) THIS IS MANDATORY OPTION	VPP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	VNP
((OPTION_C)) This is optional	VNN
((OPTION_D)) This is optional	VPN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES END TO END SECURITY FOR APPLICATION
((OPTION_A)) THIS IS MANDATORY OPTION	DATA LINK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NETWORK
((OPTION_C)) This is optional	TRANSPORT
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is actually an IETF version on
((OPTION_A)) THIS IS MANDATORY OPTION	TLS, TSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL. TLS
((OPTION_C)) This is optional	TLS, SSL
((OPTION_D)) This is optional	SSL,SLT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security at the transport layer
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To provide security and compression
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Can receive application data from any application layer protocol
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSL provides
((OPTION_A)) THIS IS MANDATORY OPTION	Integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Compression
((OPTION_D)) This is optional	All above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSI session
((OPTION_A)) THIS IS MANDATORY OPTION	List of protocol
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher suit
((OPTION_C)) This is optional	List of keys
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cryptographic algorithem and secrets are sent with the message IN
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	TLS
((OPTION_D)) This is optional	PGP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security protocol for email security is
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Was invented by Phil Zimmerman
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security, integration, authentication in email
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Method to transfer secure message
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cryptoanalysis
((OPTION_C)) This is optional	both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the original message before transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the message after transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms plaintext to ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms cipher text to plain text
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A combination of encryption and decryption algorithm is called
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher operates on
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The same key used by both the sender and receiver
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The key is called as secret key
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A pair of keys used in
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the sender uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the receiver uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A cipher replaces one character with another
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic and polyalphabetic cipher are
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The simplest monoalphabetic cipher is
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Ceasar cipher that has key of 3
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cipher reorders the plain text to create the ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless substitution To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless transposition To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher made of a combination of different simple cipher
((OPTION_A)) THIS IS MANDATORY OPTION	Round
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Circle
((OPTION_C)) This is optional	Square
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is an method
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES has an Round
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES functions has componenets
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES uses a key generaterto generater to generate sixteen ---round key
((OPTION_A)) THIS IS MANDATORY OPTION	32 bit
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	48 bit
((OPTION_C)) This is optional	54 bit
((OPTION_D)) This is optional	42 bit
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES was designed to increase the size of DES key
((OPTION_A)) THIS IS MANDATORY OPTION	Double
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripal
((OPTION_C)) This is optional	Quadrupal
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Algorithm uses a 128 bit block of data
((OPTION_A)) THIS IS MANDATORY OPTION	AEE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AED
((OPTION_C)) This is optional	AER
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES has how many different combinations
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are ciphers
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Field
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptographic algorithm is
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	AC
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	it provides a one time session key for two parties
((OPTION_A)) THIS IS MANDATORY OPTION	Diffie hellman
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is an abbreviation of
((OPTION_A)) THIS IS MANDATORY OPTION	Terminal network
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Telephone network
((OPTION_C)) This is optional	Telecommunication network
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is a client server application program for
((OPTION_A)) THIS IS MANDATORY OPTION	Specific purpose
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	General purpose
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Users logs in to local time sharing system is called
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To access remote machine need a login
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	NVT uses two set of character
((OPTION_A)) THIS IS MANDATORY OPTION	Sending, receiving
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Request, reply
((OPTION_C)) This is optional	Data, control
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The server uses -----port
((OPTION_A)) THIS IS MANDATORY OPTION	Wellknown
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Emperor
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To distinguish data from characters
((OPTION_A)) THIS IS MANDATORY OPTION	ICA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IAC
((OPTION_C)) This is optional	AIC
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	the echoing is done by the client in the mode
((OPTION_A)) THIS IS MANDATORY OPTION	Default
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Character
((OPTION_C)) This is optional	Line
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP uses a service of
((OPTION_A)) THIS IS MANDATORY OPTION	UDP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IP
((OPTION_C)) This is optional	TCP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP control and data connection are
((OPTION_A)) THIS IS MANDATORY OPTION	21, 22
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	20,21
((OPTION_C)) This is optional	21,20
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP is the service type used by IP protocol because
((OPTION_A)) THIS IS MANDATORY OPTION	Maximise throughput
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Minimize delay
((OPTION_C)) This is optional	Minimize error
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For control connection FTP use a character set of
((OPTION_A)) THIS IS MANDATORY OPTION	Regular ASCII
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EBCDIC
((OPTION_C)) This is optional	NVT ASCII
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP files are types of an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structures
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP there are three types of -----,stream, blocked and compression
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structurs
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP and image defines an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File type
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structure
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the server to client
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Retrieve a list
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the client to server
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Store a file
((OPTION_C)) This is optional	Retrieve a file
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a part of a local hard drive, a special file with permission restriction
((OPTION_A)) THIS IS MANDATORY OPTION	A message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A response
((OPTION_C)) This is optional	An agent
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and the receiver on the same system we need
((OPTION_A)) THIS IS MANDATORY OPTION	One UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	One UA and one MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are on the different system, we need
((OPTION_A)) THIS IS MANDATORY OPTION	One MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	Two UA and one pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender is connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pairs of MTA
((OPTION_C)) This is optional	Two UA and a pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two UA, two pair of MTA, a pair of MAA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pair of MTA
((OPTION_C)) This is optional	Two UA, two pair of MTA, two pair of MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It provides a service to the user to make the process of sending and receiving message
((OPTION_A)) THIS IS MANDATORY OPTION	MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAA
((OPTION_C)) This is optional	UA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following services is not provided by UA
((OPTION_A))  THIS IS MANDATORY OPTION	Composing message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Reading message
((OPTION_C))  This is optional	Reply message
((OPTION_D))  This is optional	ALL are
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There are two types of user agents
((OPTION_A)) THIS IS MANDATORY OPTION	Command driven, data driven
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Command driven, GUI based
((OPTION_C)) This is optional	Command based and data based
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It contains the sender address, receiver address and other information
((OPTION_A)) THIS IS MANDATORY OPTION	Message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Envelop
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The message contains
((OPTION_A)) THIS IS MANDATORY OPTION	Header, envelop
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Header, body
((OPTION_C)) This is optional	Envelop, body
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the internet, the email address contains two parts
((OPTION_A)) THIS IS MANDATORY OPTION	Local part, domain name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Global part, domain name
((OPTION_C)) This is optional	Label, domain name
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is a supplementary protocol that allow Non ASCII data to be sent through email
((OPTION_A)) THIS IS MANDATORY OPTION	JPEG
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MPEG
((OPTION_C)) This is optional	MIME
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The actual email transfer is done through
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol that defines a MTA client and server in the internet is called
((OPTION_A)) THIS IS MANDATORY OPTION	SMTP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SNMP
((OPTION_C)) This is optional	TELNET
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of transferring a mail message occurs in-----phase
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SMTP is --- protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

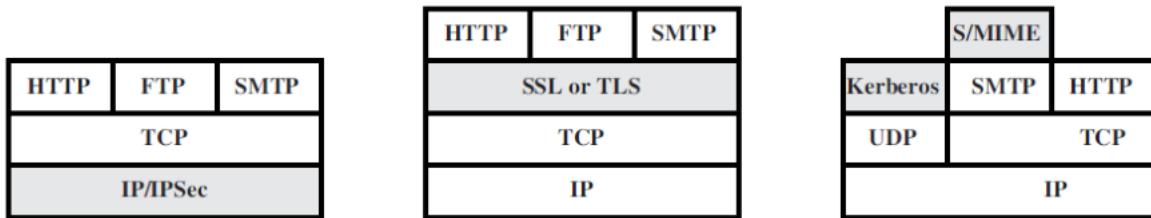
((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in a email transfer need a ---protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in an email transfer uses an ----protocol
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Currently two message asses protocol are available
((OPTION_A)) THIS IS MANDATORY OPTION	POP3, IMAP2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POP4,IMAP1
((OPTION_C)) This is optional	POP3, IMAP4
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

## Unit 4

### 1. Secure Socket Layer Protocol



1. In the above figure from left to right, the correct order of the shaded levels are

- a) Network level, Application level, Transport level
- b) Application level, Network level, Transport level
- c) Transport level, Application level, Network level
- d) Network level, Transport level, Application level

Answer: d

Explanation: IP/IPSec is the Network level, SSL or TLS is the Transport Level, Kerberos and S/MIME are the Application level.

2. In the above figure, which of the above shaded block is transparent to end users and applications?

- a) IP/IPSec
- b) SSL
- c) Kerberos
- d) S/MIME

Answer: a

Explanation: IP/IPSec is the Network layer which is transparent to end users and applications.

3. In terms of Web Security Threats, “Impersonation of another user” is a Passive Attack.

- a) True
- b) False

Answer: b

Explanation: Passive attacks include eavesdropping on network traffic between browser and server and gaining access to information on a website that is supposed to be restricted. Active attacks include impersonating another user, altering messages in transit between client and server, altering information on a website.

4. Which one of the following is not a higher –layer SSL protocol?

- a) Alert Protocol
- b) Handshake Protocol
- c) Alarm Protocol

d) Change Cipher Spec Protocol

Answer: c

Explanation: Three higher –layer protocols are defined as part of SSL: The Handshake Protocol, The Change Cipher Spec Protocol and The Alert Protocol.

5. In the SSL Protocol, each upper layer message if fragmented into a maximum of \_\_\_\_\_ bytes.

- a)  $2^{16}$
- b)  $2^{32}$
- c)  $2^{14}$
- d)  $2^{12}$

Answer: c

Explanation: In the fragmentation process we obtain blocks of  $2^{14}$  bytes which is compressed in the next step.

6. The full form of SSL is

- a) Serial Session Layer
- b) Secure Socket Layer
- c) Session Secure Layer
- d) Series Socket Layer

Answer: b

Explanation: SSL stands for Secure Sockets Layer.

7. Which protocol is used to convey SSL related alerts to the peer entity?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

Answer: a

Explanation: The Alert protocol is used to convey SSL related alerts to the peer entity.

8. Which protocol consists of only 1 bit?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

Answer: d

Explanation: The change cipher spec protocol is bit long.

9. Which protocol is used for the purpose of copying the pending state into the current state?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol

d) Change Cipher Spec Protocol

Answer: d

Explanation: The Change Cipher Spec Protocol is used for this action.

10. In the alert protocol the first byte takes the value 1 or 2 which corresponds to \_\_\_\_\_ and \_\_\_\_\_ respectively.

- a) Select, Alarm
- b) Alert, Alarm
- c) Warning, Alarm
- d) Warning, Fatal

Answer: d

Explanation: The first byte takes the value warning(1) or fatal(2) to convey the severity of the message.

## 2. Pretty good privacy (PGP), S/MIME, SET

1. Pretty good privacy (PGP) security system uses

- a) Public key cryptosystem
- b) Private key cryptosystem
- c) Public & Private key cryptosystem
- d) None of the mentioned

Answer: c

Explanation: PGP uses many encryption techniques such as private key cryptosystem and also public key cryptosystem.

2. Data compression includes

- a) Removal of redundant character
- b) Uniform distribution of characters
- c) Removal of redundant character & Uniform distribution of characters
- d) None of the mentioned

Answer: c

Explanation: Data compression removes redundant character strings in a file and produces a more uniform distribution of characters.

3. PGP offers \_\_\_\_\_ block ciphers for message encryption.

- a) Triple-DES
- b) CAST
- c) IDEA
- d) All of the mentioned

Answer: d

Explanation: Pretty good privacy security system offers three block ciphers for message encryption – Triple-DES, IDEA and CAST.

4. What is the key size allowed in PGP?

- a) 1024-1056
- b) 1024-4056
- c) 1024-4096
- d) 1024-2048

Answer: c

Explanation: Pretty good privacy security system allows 1024 to 4096 bits of key size.

5. Which of the following is not a secured mail transferring methodology?

- a) POP3
- b) SSMTP
- c) Mail using PGP
- d) S/MIME

Answer: a

Explanation: POP (Post Office Protocol) is a simple protocol which fetches the updated mail stored for you by the server. S/MIME (Secure/Multipurpose Internet Mail Extensions), SSMTP (Secure-Simple Mail Transfer Protocol), and PGP (Pretty Good Privacy) are examples of protocols and methods for secure mailing.

6. HTTPS is abbreviated as \_\_\_\_\_

- a) Hypertexts Transfer Protocol Secured
- b) Secured Hyper Text Transfer Protocol
- c) Hyperlinked Text Transfer Protocol Secured
- d) Hyper Text Transfer Protocol Secure

Answer: d

Explanation: Hyper Text Transfer Protocol Secure (HTTPS) is a security protocol which maintains security when data is sent from browser to server and vice versa. It denotes that all communication setup between the browser and the server is encrypted.

7. SSL primarily focuses on \_\_\_\_\_

- a) integrity and authenticity
- b) integrity and non-repudiation
- c) authenticity and privacy
- d) confidentiality and integrity

Answer: a

Explanation: SSL primarily focuses on maintaining the integrity of the data. Also, it maintains authenticity which helps the customers feel secure to communicate over the internet.

8. In SSL, what is used for authenticating a message?

- a) MAC (Message Access Code)
- b) MAC (Message Authentication Code)

- c) MAC (Machine Authentication Code)
- d) MAC (Machine Access Code)

Answer: b

Explanation: For authenticating in SSL, a short message known as MAC (Message Authentication Code) is used for authenticating a message; where both the sender & the receiver need to implement the same key in order to start communicating.

9. \_\_\_\_\_ is used for encrypting data at network level.

- a) IPSec
- b) HTTPS
- c) SMTP
- d) S/MIME

Answer: a

Explanation: IPSec (Secure Internet Protocol) is used for securing data at the network level by using 3 different protocols. These are Encapsulating Secure Payload (ESP), Authentication Header, and Internet Key Exchange (IKE).

10. S/MIME is abbreviated as \_\_\_\_\_

- a) Secure/Multimedia Internet Mailing Extensions
- b) Secure/Multipurpose Internet Mailing Extensions
- c) Secure/Multimedia Internet Mail Extensions
- d) Secure/Multipurpose Internet Mail Extensions

Answer: d

Explanation: Secure/Multipurpose Internet Mail Extensions is the most popular protocol used to send encrypted messages that are digitally signed. In this protocol, the encryption is done with a digital sign in them.

11. S/MIME stands for \_\_\_\_\_.

- a. standard multipurpose internet mail extensions.
- b. secure multipurpose internet mail extensions.
- c. secure multipurpose international mail extensions.
- d. standard multipurpose international mail extensions.

Answer: B.

12. \_\_\_\_\_ uniquely identifies the MIME entities uniquely with reference to multiple contexts.

- a. Content description.
- b. Content -id.
- c. Content type.
- d. Content transfer encoding.

Answer: B.

13. The processed S/MIME along with security related data is called as \_\_\_\_\_.

- a. public key cryptography standard.
- b. private key cryptography standard.
- c. S/MIME.

d. MIME.

Answer: A.

14. In S/MIME, MLA stands for \_\_\_\_\_.

- a. mailing list agent.
- b. multipurpose list agent.
- c. mail lock agent.
- d. message link agent.

Answer: A.

15. The cryptography algorithms used in S/MIME are \_\_\_\_\_.

- a. IDEA.
- b. RC4.
- c. RSA,DES-3.
- d. RC5.

Answer: C.

16. The \_\_\_\_\_ acts as financial institutions who provides a payment card to a card holder.

- a. payment gateway.
- b. card holder.
- c. acquirer.
- d. issuer.

Answer: D.

17. Who will be responsible for processing the payment from the customer's account to the merchant account?

- a. Acquirer.
- b. Merchant.
- c. Issuer.
- d. Payment gateway.

Answer: D.

18. The cardholder combines the PIMD and OIMD and hashes them together to form \_\_\_\_\_.

- a. OPMD.
- b. POMD.
- c. MD.
- d. DS.

Answer: B.

19. Which process will ensure that the issues of the credit card is an approved transactions?

- a. Payment capture.
- b. Payment authorization.
- c. Purchase request.
- d. Purchase reply.

Answer: B.

20. \_\_\_\_\_ is used for hiding the payment information from the merchant.

- a. SET.
- b. SSL.
- c. SHTTP.
- d. TSP.

Answer: A.

### 3. IPSEC

1. IPSec is designed to provide security at the \_\_\_\_\_

- a) Transport layer
- b) Network layer
- c) Application layer
- d) Session layer

Answer: b

Explanation: IPSec is a set of protocols used to provide authentication, data integrity and confidentiality between two machines in an IP network. In the TCP/IP model, it provides security at the IP layer i.e. the network layer.

2. In tunnel mode, IPSec protects the \_\_\_\_\_

- a) Entire IP packet
- b) IP header
- c) IP payload
- d) IP trailer

Answer: a

Explanation: In the tunnel mode, IPSec adds control bits into the packets to encrypt the entire packet between the IPSec endpoints. Using encryption, it provides secure communication between the two endpoints.

3. Which component is included in IP security?

- a) Authentication Header (AH)
- b) Encapsulating Security Payload (ESP)
- c) Internet key Exchange (IKE)
- d) All of the mentioned

Answer: d

Explanation: AH ensures that there is no retransmission of data from an unauthorized source, and protects against data tampering. ESP provides with content protection and ensures that there is integrity and confidentiality for the message. IKE is used to make sure that only the intended sender and receiver can access the message.

4. Pretty good privacy (PGP) is used in \_\_\_\_\_

- a) Browser security
- b) Email security
- c) FTP security

d) WiFi security

Answer: b

Explanation: PGP is an encryption method used in e-mail security to encrypt and decrypt the content of an e-mail transmitted over the internet. It makes sure that the message cannot be stolen by other unauthorized users.

5. PGP encrypts data by using a block cipher called \_\_\_\_\_

- a) International data encryption algorithm
- b) Private data encryption algorithm
- c) Internet data encryption algorithm
- d) Local data encryption algorithm

Answer: a

Explanation: The IDEA was designed in 1991 by Xuejia Lai and James Massey. Before IDEA, PGP used the cipher method BassOmatic.

## VPN

1. A \_\_\_\_\_ is an extension of an enterprise's private intranet across a public network such as the internet, creating a secure private connection.

- a) VNP
- b) VPN
- c) VSN
- d) VSPN

Answer: b

Explanation: VPN provides enhanced security and online anonymity to users on the internet. It is also used to unblock websites that are unavailable in certain regions.

2. When were VPNs introduced into the commercial world?

- a) Early 80's
- b) Late 80's
- c) Early 90's
- d) Late 90's

Answer: d

Explanation: VPNs were first introduced in the year 1996. Then as the internet started to get popularized, the need for connection security increased. VPN was a great solution to this, and that's when VPNs were implemented in the commercial world.

3. What protocol is NOT used in the operation of a VPN?

- a) PPTP
- b) IPsec
- c) YMUM
- d) L2TP

Answer: c

Explanation: PPTP is a tunneling protocol which was initially used for the creation of VPNs.

IPSec is used in encrypting the traffic flowing in the VPN. L2TP is used to tunnel all the L2 traffic on the VPN.

4. Which of the following statements is NOT true concerning VPNs?

- a) Financially rewarding compared to leased lines
- b) Allows remote workers to access corporate data
- c) Allows LAN-to-LAN connectivity over public networks
- d) Is the backbone of the Internet

Answer: d

Explanation: VPNs are not the backbone of the Internet as they are just a method to create private intranets on the internet. They are used for enhancing the connection security for the users.

5. Traffic in a VPN is NOT \_\_\_\_\_

- a) Invisible from public networks
- b) Logically separated from other traffic
- c) Accessible from unauthorized public networks
- d) Restricted to a single protocol in IPsec

Answer: c

Explanation: Traffic in a VPN is not accessible from any unauthorized public networks because it is secured with the masking IP address. This provides the benefit of access to blocked resources to the users.

6. VPNs are financially speaking \_\_\_\_\_

- a) Always more expensive than leased lines
- b) Always cheaper than leased lines
- c) Usually cheaper than leased lines
- d) Usually more expensive than leased lines

7. Which layer 3 protocols can be transmitted over an L2TP VPN?

- a) Only IP
- b) Only IPX
- c) Only ICMP
- d) IP and IPX

Answer: d

Explanation: L2TP stands for Layer 2 Tunneling Protocol. It is used to tunnel all the L2 traffic on an IP network and is able to transmit network layer's IP and IPX protocol data.

8. ESP (Encapsulating Security Protocol) is defined in which of the following standards?

- a) IPsec
- b) PPTP
- c) PPP
- d) L2TP

Answer: a

Explanation: ESP is a security component of IPSec. ESP provides content protection and

ensures that there is integrity and confidentiality of the message. The other security components of IPSec are Authentication Header and Internet Key Exchange.

9. L2F was developed by which company?

- a) Microsoft
- b) Cisco
- c) Blizzard Entertainment
- d) IETF

Answer: b

Explanation: L2F stands for Layer 2 Forwarding protocol. It was designed by Cisco to tunnel PPP traffic, helping create VPNs over the internet.

10. Which layer of the OSI reference model does PPTP work at?

- a) Layer 1
- b) Layer 2
- c) Layer 3
- d) Layer 4

Answer: b

Explanation: PPTP stands for Point-to-Point Tunneling Protocol. PPTP is a tunneling protocol that was primitively used to create VPNs. It is no longer used for VPNs due to the lack of security it provides.

11. Which layer of the OSI reference model does IPsec work at?

- a) Layer 1
- b) Layer 2
- c) Layer 3
- d) Layer 4

Answer: c

Explanation: IPsec is a set of protocols used to provide authentication, data integrity and confidentiality between two machines in an IP network. It operates in the network layer.

1 . \_\_\_\_\_ is a collection of protocols designed by the IETF (Internet Engineering Task Force) to provide security for a packet at the network level.

- A. IPSec
- B. SSL
- C. PGP
- D. none of the above

Correct Answer :

**IPSec**

[View Answer](#)

2 . \_\_\_\_\_ operates in the transport mode or the tunnel mode.

- A. IPSec
- B. SSL
- C. PGP
- D. none of the above

Correct Answer :

**IPSec**

3 . In the \_\_\_\_\_ mode, IPSec protects information delivered from the transport layer to the network layer.

- A. transport
- B. tunnel
- C. either (a) or (b)
- D. neither (a) nor (b)

Correct Answer :

**transport**

[View Answer](#)

4 . IPSec in the \_\_\_\_\_ mode does not protect the IP header.

- A. transport
- B. tunnel
- C. either (a) or (b)
- D. neither (a) nor (b)

Correct Answer :

**transport**

"|

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Collection of protocol designed by IETF
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Operation in Tunnel mode
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects information in
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec in which mode does not protect IP header
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which mode is used when we need host to host protection
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects the whole IP packets
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec defines two protocol
((OPTION_A)) THIS IS MANDATORY OPTION	AH, SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP, ASP
((OPTION_C)) This is optional	AH, ESP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Authentication at the IP header
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES AUTHENTICATION OR ENCRYPTION OR BOTH FOR PACKET AT IP LEVEL
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ESP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSEC USES A SET OF SA CALLED
((OPTION_A)) THIS IS MANDATORY OPTION	SAD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SAB
((OPTION_C)) This is optional	SADB
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol to provide security for inbound and outbound
((OPTION_A)) THIS IS MANDATORY OPTION	SA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CA
((OPTION_C)) This is optional	KDC
((OPTION_D)) This is optional	IKE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE creates SA for
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP
((OPTION_C)) This is optional	IPSec
((OPTION_D)) This is optional	VP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE based on other how many protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Two
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Three
((OPTION_C)) This is optional	Four
((OPTION_D)) This is optional	five
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE uses
((OPTION_A)) THIS IS MANDATORY OPTION	OAKLEY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SKEME
((OPTION_C)) This is optional	ISKAMP
((OPTION_D)) This is optional	ALL ABOVE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network is used in an organization
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Semi private
((OPTION_D)) This is optional	Semi publik
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Private network that uses an internet model
((OPTION_A)) THIS IS MANDATORY OPTION	intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a network that allows authorized access from outside
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Internet authorities have reserved address for
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is provides privacy for LAN
((OPTION_A)) THIS IS MANDATORY OPTION	VPP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	VNP
((OPTION_C)) This is optional	VNN
((OPTION_D)) This is optional	VPN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES END TO END SECURITY FOR APPLICATION
((OPTION_A)) THIS IS MANDATORY OPTION	DATA LINK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NETWORK
((OPTION_C)) This is optional	TRANSPORT
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is actually an IETF version on
((OPTION_A)) THIS IS MANDATORY OPTION	TLS, TSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL. TLS
((OPTION_C)) This is optional	TLS, SSL
((OPTION_D)) This is optional	SSL,SLT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security at the transport layer
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To provide security and compression
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Can receive application data from any application layer protocol
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSL provides
((OPTION_A)) THIS IS MANDATORY OPTION	Integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Compression
((OPTION_D)) This is optional	All above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSI session
((OPTION_A)) THIS IS MANDATORY OPTION	List of protocol
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher suit
((OPTION_C)) This is optional	List of keys
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cryptographic algorithem and secrets are sent with the message IN
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	TLS
((OPTION_D)) This is optional	PGP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security protocol for email security is
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Was invented by Phil Zimmerman
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security, integration, authentication in email
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Method to transfer secure message
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cryptoanalysis
((OPTION_C)) This is optional	both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the original message before transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the message after transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms plaintext to ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms cipher text to plain text
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A combination of encryption and decryption algorithm is called
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher operates on
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The same key used by both the sender and receiver
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The key is called as secret key
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A pair of keys used in
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the sender uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the receiver uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A cipher replaces one character with another
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic and polyalphabetic cipher are
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The simplest monoalphabetic cipher is
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Ceasar cipher that has key of 3
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cipher reorders the plain text to create the ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless substitution To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless transposition To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher made of a combination of different simple cipher
((OPTION_A)) THIS IS MANDATORY OPTION	Round
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Circle
((OPTION_C)) This is optional	Square
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is an method
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES has an Round
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES functions has componenets
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES uses a key generaterto generater to generate sixteen ---round key
((OPTION_A)) THIS IS MANDATORY OPTION	32 bit
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	48 bit
((OPTION_C)) This is optional	54 bit
((OPTION_D)) This is optional	42 bit
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES was designed to increase the size of DES key
((OPTION_A)) THIS IS MANDATORY OPTION	Double
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripal
((OPTION_C)) This is optional	Quadrupal
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Algorithm uses a 128 bit block of data
((OPTION_A)) THIS IS MANDATORY OPTION	AEE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AED
((OPTION_C)) This is optional	AER
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES has how many different combinations
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are ciphers
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Field
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptographic algorithm is
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	AC
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	it provides a one time session key for two parties
((OPTION_A)) THIS IS MANDATORY OPTION	Diffie hellman
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is an abbreviation of
((OPTION_A)) THIS IS MANDATORY OPTION	Terminal network
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Telephone network
((OPTION_C)) This is optional	Telecommunication network
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is a client server application program for
((OPTION_A)) THIS IS MANDATORY OPTION	Specific purpose
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	General purpose
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Users logs in to local time sharing system is called
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To access remote machine need a login
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	NVT uses two set of character
((OPTION_A)) THIS IS MANDATORY OPTION	Sending, receiving
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Request, reply
((OPTION_C)) This is optional	Data, control
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The server uses -----port
((OPTION_A)) THIS IS MANDATORY OPTION	Wellknown
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Emperor
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To distinguish data from characters
((OPTION_A)) THIS IS MANDATORY OPTION	ICA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IAC
((OPTION_C)) This is optional	AIC
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	the echoing is done by the client in the mode
((OPTION_A)) THIS IS MANDATORY OPTION	Default
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Character
((OPTION_C)) This is optional	Line
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP uses a service of
((OPTION_A)) THIS IS MANDATORY OPTION	UDP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IP
((OPTION_C)) This is optional	TCP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP control and data connection are
((OPTION_A))  THIS IS MANDATORY OPTION	21, 22
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	20,21
((OPTION_C))  This is optional	21,20
((OPTION_D))  This is optional	none
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP is the service type used by IP protocol because
((OPTION_A)) THIS IS MANDATORY OPTION	Maximise throughput
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Minimize delay
((OPTION_C)) This is optional	Minimize error
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For control connection FTP use a character set of
((OPTION_A)) THIS IS MANDATORY OPTION	Regular ASCII
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EBCDIC
((OPTION_C)) This is optional	NVT ASCII
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP files are types of an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structures
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP there are three types of -----,stream, blocked and compression
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structurs
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP and image defines an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File type
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structure
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the server to client
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Retrieve a list
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the client to server
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Store a file
((OPTION_C)) This is optional	Retrieve a lise
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a part of a local hard drive, a special file with permission restriction
((OPTION_A)) THIS IS MANDATORY OPTION	A message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A response
((OPTION_C)) This is optional	An agent
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and the receiver on the same system we need
((OPTION_A)) THIS IS MANDATORY OPTION	One UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	One UA and one MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are on the different system, we need
((OPTION_A)) THIS IS MANDATORY OPTION	One MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	Two UA and one pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender is connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pairs of MTA
((OPTION_C)) This is optional	Two UA and a pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two UA, two pair of MTA, a pair of MAA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pair of MTA
((OPTION_C)) This is optional	Two UA, two pair of MTA, two pair of MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It provides a service to the user to make the process of sending and receiving message
((OPTION_A)) THIS IS MANDATORY OPTION	MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAA
((OPTION_C)) This is optional	UA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following services is not provided by UA
((OPTION_A))  THIS IS MANDATORY OPTION	Composing message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Reading message
((OPTION_C))  This is optional	Reply message
((OPTION_D))  This is optional	ALL are
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There are two types of user agents
((OPTION_A)) THIS IS MANDATORY OPTION	Command driven, data driven
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Command driven, GUI based
((OPTION_C)) This is optional	Command based and data based
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It contains the sender address, receiver address and other information
((OPTION_A)) THIS IS MANDATORY OPTION	Message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Envelop
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The message contains
((OPTION_A)) THIS IS MANDATORY OPTION	Header, envelop
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Header, body
((OPTION_C)) This is optional	Envelop, body
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the internet, the email address contains two parts
((OPTION_A)) THIS IS MANDATORY OPTION	Local part, domain name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Global part, domain name
((OPTION_C)) This is optional	Label, domain name
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is a supplementary protocol that allow Non ASCII data to be sent through email
((OPTION_A)) THIS IS MANDATORY OPTION	JPEG
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MPEG
((OPTION_C)) This is optional	MIME
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The actual email transfer is done through
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol that defines a MTA client and server in the internet is called
((OPTION_A)) THIS IS MANDATORY OPTION	SMTP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SNMP
((OPTION_C)) This is optional	TELNET
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of transferring a mail message occurs in-----phase
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SMTP is --- protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in a email transfer need a ---protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in an email transfer uses an ----protocol
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Currently two message asses protocol are available
((OPTION_A)) THIS IS MANDATORY OPTION	POP3, IMAP2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POP4,IMAP1
((OPTION_C)) This is optional	POP3, IMAP4
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a threat to information security?
((OPTION_A)) THIS IS MANDATORY OPTION	Disaster
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Eavesdropping
((OPTION_C)) This is optional	Information leakage
((OPTION_D)) This is optional	Unchanged default password
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Disaster, eavesdropping and information leakage come under information security threats whereas not changing the default password of any system, hardware or any software comes under the category of vulnerabilities that the user may pose to its system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compromising confidential information comes under
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	Threats are anything that may cause damage or harm to a computer system, individual or any information. Compromising of confidential information means extracting out sensitive data from a system by illegal manner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Lack of access control policy is a
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Access control policies are incorporated to a security system for restricting of unauthorised access to any logical or physical system. Every security compliance program must need this as a fundamental component. Those systems which lack this feature is vulnerable.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Possible threat to any information cannot be
((OPTION_A)) THIS IS MANDATORY OPTION	reduced
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transferred
((OPTION_C)) This is optional	protected
((OPTION_D)) This is optional	ignored
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	When there lies a threat to any system, safeguards can be implemented, outsourced, distributed or transferred to some other system, protected using security tools and techniques but cannot be ignored.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?
((OPTION_A))  THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))  This is optional	Authenticity
((OPTION_D))  This is optional	Availability
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	According to the CIA triad the three components that a security need is the Confidentiality, Integrity, Availability (as in short read as

		
CIA).		

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When you use the word _____ it means you are protecting your data from getting disclosed.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	

((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Confidentiality is what every individual prefer in terms of physical privacy as well as digital privacy. This term means our information needs to be protected from getting disclose to unauthorised parties, for which we use different security mechanisms like password protection, biometric security, OTPs (One Time Passwords) etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ means the protection of data from modification by unknown users.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Non-repudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	A information only seems valuable if it is correct and do not get modified during its journey in the course of arrival. The element integrity makes sure that the data sent or generated from other end is correct and is not modified by any unauthorised party in between.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When integrity is lacking in a security system, _____ occurs.
((OPTION_A)) THIS IS MANDATORY OPTION	Database hacking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data deletion
((OPTION_C)) This is optional	Data tampering
((OPTION_D)) This is optional	Data leakage
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The term data tampering is used when integrity is compromised in any security model and checking its integrity later becomes costlier. Example: let suppose you sent \$50 to an authorised person and in between a Man in the Middle (MiTM) attack takes place and the value has tampered to \$500. This is how integrity is compromised.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	of information means, only authorised users are capable of accessing the information.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional.	

If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Information seems useful only when right people (authorised users) access it after going through proper authenticity check. The key element availability ensures that only authorised users are able to access the information.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
((OPTION_A)) THIS IS MANDATORY OPTION	They help understanding hacking better
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	They are key elements to a security breach
((OPTION_C)) This is optional	They help understands security and its components better
((OPTION_D)) This is optional	They help to understand the cyber-crime better
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The four elements of security viz. confidentiality, integrity, authenticity & availability helps in better understanding the pillars of security and its different components.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This helps in identifying the origin of information and authentic user. This referred to here as
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The key element, authenticity helps in assuring the fact that the information is from the original source.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data _____ is used to ensure confidentiality.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Locking
((OPTION_C)) This is optional	Deleting
((OPTION_D)) This is optional	Backup
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Data encryption is the method of converting plain text to cipher-text and only authorised users can decrypt the message back to plain text. This preserves the confidentiality of data

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is not a proper method of maintaining AUTHENTICATION?
((OPTION_A)) THIS IS MANDATORY OPTION	Biometric verification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ID and password based verification
((OPTION_C)) This is optional	2-factor authentication
((OPTION_D)) This is optional	switching off the phone
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Switching off the phone in the fear of preserving the confidentiality of data is not a proper solution for data confidentiality. Fingerprint detection, face recognition, password-based authentication, two-step verifications are some of these.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data integrity gets compromised when _____ and _____ are taken control off.
((OPTION_A)) THIS IS MANDATORY OPTION	Access control, file deletion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Network, file permission
((OPTION_C)) This is optional	Access control, file permission
((OPTION_D)) This is optional	Network, system

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The two key ingredients that need to be kept safe are: access control & file permission in order to preserve data integrity.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One common way to maintain data availability is
((OPTION_A)) THIS IS MANDATORY OPTION	Data clustering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data backup
((OPTION_C)) This is optional	Data recovery
((OPTION_D)) This is optional	Data Altering

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	For preventing data from data-loss, or damage data backup can be done and stored in a different geographical location so that it can sustain its data from natural disasters & unpredictable events.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hackers who help in finding bugs and vulnerabilities in a system & don't intend to crack a system are termed as
((OPTION_A)) THIS IS MANDATORY OPTION	Black Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Grey Hat Hackers
((OPTION_D)) This is optional	Red Hat Hackers

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	White Hat Hackers are cyber security analysts and consultants who have the intent to help firms and Governments in the identification of loopholes as well as help to perform penetration tests for securing a system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the legal form of hacking based on which jobs are provided in IT industries and firms?
((OPTION_A)) THIS IS MANDATORY OPTION	Cracking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Non ethical Hacking
((OPTION_C)) This is optional	Ethical hacking
((OPTION_D))	Hactivism

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Ethical Hacking is an ethical form of hacking done by white-hat hackers for performing penetration tests and identifying potential threats in any organizations and firms.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	They are nefarious hackers, and their main motive is to gain financial profit by doing cyber crimes. Who are "they" referred to here?
((OPTION_A)) THIS IS MANDATORY OPTION	Gray Hat Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Hactivists
((OPTION_D))	Black Hat Hackers

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Black Hat hackers also termed as 'crackers' and are a major type of cyber criminals who take unauthorized access in user's account or system and steal sensitive data or inject malware into the system for their profit or to harm the organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are the combination of both white as well as black hat hackers.
((OPTION_A)) THIS IS MANDATORY OPTION	Grey Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Green Hat hackers
((OPTION_C)) This is optional	Blue Hat Hackers

((OPTION_D)) This is optional	Red Hat Hacker
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Grey Hat Hackers have a blending character of both ethical as well as un-ethical hacker. They hack other's systems for fun but do not harm the system, exploits bugs and vulnerabilities in network without the knowledge of the admin or the owner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The amateur or newbie in the field of hacking who don't have many skills about coding and in-depth working of security and hacking tools are called _____
((OPTION_A)) THIS IS MANDATORY OPTION	Sponsored Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hactivists
((OPTION_C))	Script Kiddies

This is optional	
((OPTION_D))	Whistle Blowers
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Script Kiddies are new to hacking and at the same time do not have many interests in developing coding skills or find bugs of their own in systems; rather they prefer downloading of available tools (developed by elite hackers) and use them to break any system or network. They just try to gain attention of their friend circles.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suicide Hackers are those _____
((OPTION_A)) THIS IS MANDATORY OPTION	who break a system for some specific purpose with or without keeping in mind that they may suffer long term imprisonment due to their malicious activity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	individuals with no knowledge of codes but an expert in using hacking tools

((OPTION_C)) This is optional	who know the consequences of their hacking activities and hence try to prevent them by erasing their digital footprints
((OPTION_D)) This is optional	who are employed in an organization to do malicious activities on other firms
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Suicide hackers are those who break into any network or system with or without knowing the consequences of the cyber crime and its penalty. There are some suicide hackers who intentionally do crimes and get caught to bring their names in the headlines.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Criminal minded individuals who work for terrorist organizations and steal information of nations and other secret intelligence are _____
((OPTION_A)) THIS IS MANDATORY OPTION	State sponsored hackers
((OPTION_B)) THIS IS ALSO MANDATORY	Blue Hat Hackers

OPTION	
((OPTION_C)) This is optional	Cyber Terrorists
((OPTION_D)) This is optional	Red Hat Hackers
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Cyber Terrorists are very expert programmers and cyber criminals who hide themselves while doing malicious activities over the internet and they are smart enough to hide themselves or their tracks of action. They are hired for gaining unauthorised access to nation's data centres or break into the network of intelligence agencies.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are those individuals who maintain and handles IT security in any firm or organization.
((OPTION_A)) THIS IS MANDATORY OPTION	IT Security Engineer
((OPTION_B))	Cyber Security Interns

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Software Security Specialist
((OPTION_D)) This is optional	Security Auditor
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is an intermediary level of position of an individual in an organization or firm who builds and preserves different systems and its associated security tools of the firm of organization to which he/she belongs.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Role of security auditor is to _____
((OPTION_A)) THIS IS MANDATORY OPTION	secure the network

((OPTION_B)) THIS IS ALSO MANDATORY OPTION	probe for safety and security of organization's security components and systems
((OPTION_C)) This is optional	detects and prevents cyber attacks and threats to organization
((OPTION_D)) This is optional	does penetration testing on different web applications
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Security auditors are those who conduct auditing of various computer and network systems on an organization or company and reports the safety and security issues as well as helps in suggesting improvements or enhancements in any particular system that is threat prone.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are senior level corporate employees who have the role and responsibilities of creating and designing secured network or security structures.
((OPTION_A)) THIS IS MANDATORY	Ethical Hackers

OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Chief Technical Officer
((OPTION_C)) This is optional	IT Security Engineers
((OPTION_D)) This is optional	Security Architect
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Security architect are those senior grade employees of an organization who are in charge of building, designing, implementing and testing of secured network topologies, protocols as well as secured computers in an organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Governments hired some highly skilled hackers. These types of hackers are termed as _____
((OPTION_A)) THIS IS	Special Hackers

MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Government Hackers
((OPTION_C))  This is optional	Cyber Intelligence Agents
((OPTION_D))  This is optional	Nation / State sponsored hackers
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Nation / State sponsored hackers are specific individuals who are employed or hired by the government of that nation or state and protect the nation from cyber terrorists and other groups or individuals and to reveal their plans, communications and actions.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The full form of Malware is _____
((OPTION_A))	Malfunctioned Software

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Multipurpose Software
((OPTION_C))  This is optional	) Malicious Software
((OPTION_D))  This is optional	Malfunctioning of Security
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Different types of harmful software and programs that can pose threats to a system, network or anything related to cyberspace are termed as Malware. Examples of some common malware are Virus, Trojans, Ransomware, spyware, worms, rootkits etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who deploy Malwares to a system or network?

((OPTION_A)) THIS IS MANDATORY OPTION	Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Criminal organizations, gray hat hackers, Malware developers, Penetration testers
((OPTION_C)) This is optional	) Criminal organizations, Black hat hackers, software developers, cyber-terrorists
((OPTION_D)) This is optional	Criminal organizations, White hat hackers, malware developers, cyber-terrorists
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Criminal-minded organizations, groups and individuals cyber-terrorist groups, Black hat hackers, malware developers etc are those who can deploy malwares to any target system or network in order to deface that system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	_____ is a code injecting method used for attacking the database of a system / website.

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	HTML injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SQL Injection
((OPTION_C)) This is optional	Malicious code injection
((OPTION_D)) This is optional	XML Injection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	SQLi (Structured Query Language Injection) is a popular attack where SQL code is targeted or injected; for breaking the web application having SQL vulnerabilities. This allows the attacker to run malicious code and take access to the database of that server.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN	This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here?

CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	SQL injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	HTML Injection
((OPTION_C)) This is optional	Cross Site Scripting (XSS)
((OPTION_D)) This is optional	Cross Site Request Forgery (XSRF)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	XSS attack can be infused by putting the malicious code (which gets automatically run) in any comment section or feedback section of any webpage (usually a blogging page). This can hamper the reputation of a site and the attacker may place any private data or personal credentials.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cyber-crime
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cyber Attack
((OPTION_C)) This is optional	System hijacking
((OPTION_D)) This is optional	Digital crime
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cyber attack is an umbrella term used to classify different computer & network attacks or activities such as extortion, identity theft, email hacking, digital spying, stealing hardware, mobile hacking and physical security breaching.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a set of conventions & rules set for communicating two or more devices residing in the same network?
((OPTION_A))  THIS IS MANDATORY OPTION	Security policies
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Protocols
((OPTION_C))  This is optional	Wireless network
((OPTION_D))  This is optional	Network algorithms
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Network protocols are designed with mechanisms for identifying devices and make connections between them. In addition, some proper rules are defined as to how data packets will be sent and received.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The field that covers a variety of computer networks, both public and private, that are used in everyday jobs
((OPTION_A)) THIS IS MANDATORY OPTION	Artificial Intelligence
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ML
((OPTION_C)) This is optional	Network Security
((OPTION_D)) This is optional	IT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Network security covers a variety of computer networks, both private and public. Everyday jobs like conducting transactions and communications among business and government agencies etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network Security provides authentication and access control for resources.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is not an objective of network security?
((OPTION_A)) THIS IS MANDATORY OPTION	Identification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	Access control
((OPTION_D)) This is optional	Lock
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The Identification, Authentication and Access control are the objectives of network security. There is no such thing called lock.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is a part of network identification?
((OPTION_A)) THIS IS MANDATORY OPTION	UserID
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Password
((OPTION_C)) This is optional	OTP
((OPTION_D)) This is optional	fingerprint
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The answer is UserID. UserID is a part of identification. UserID can be a combination of username, user student number etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of verifying the identity of a user.
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Verification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	It is called an authentication. It is typically based on passwords, smart card, fingerprint, etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security features that control that can access resources in the OS
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Access control
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Access control refers to the security features. Applications call access control to provide resources

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm in encryption is called
((OPTION_A)) THIS IS MANDATORY OPTION	Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Procedure
((OPTION_C)) This is optional	Cipher
((OPTION_D)) This is optional	Module
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	An algorithm used in encryption is referred to as a cipher. cipher is an algorithm for performing encryption or decryption

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The information that gets transformed in encryption is
((OPTION_A)) THIS IS MANDATORY OPTION	Plain text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Parallel text
((OPTION_C)) This is optional	Encrypted text
((OPTION_D)) This is optional	Decrypted text
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The text that gets transformed is called plain text. The algorithm used is called cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The type of threats on the security of a computer system or network are..... i) Interruption ii) Interception iii) Modification iv) Creation v) Fabrication
((OPTION_A)) THIS IS MANDATORY OPTION	i, ii, iii and iv only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii, iii, iv and v only
((OPTION_C)) This is optional	i, ii, iii and v only
((OPTION_D)) This is optional	All i, ii, iii, iv and v
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is computer threat?
((OPTION_A))  THIS IS MANDATORY OPTION	Phishing
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Soliciting
((OPTION_C))  This is optional	DoS attack
((OPTION_D))  This is optional	stalking
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a term used in cryptography that refers to a message before encryption or after decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PLAIN TEXT
((OPTION_C)) This is optional	Original text
((OPTION_D)) This is optional	Plain script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ is encrypted text
((OPTION_A)) THIS IS MANDATORY OPTION	cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cipher script
((OPTION_C)) This is optional	secret text
((OPTION_D)) This is optional	secret script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An _____ along with a key is used in the encryption
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption algorithm
((OPTION_C)) This is optional	encryption algorithm
((OPTION_D)) This is optional	plain text algorithm
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that sensitive information are accessed only by an authorized person and kept away from those not authorized to possess them.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Cryptography
((OPTION_D)) This is optional	Integrity
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information are in a format that is true and correct to its original purposes.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	integrity
((OPTION_D)) This is optional	cryptography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information and resources are available to those who need them.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Availability</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Confidentiality</b>
((OPTION_C)) This is optional	<b>Cryptography</b>
((OPTION_D)) This is optional	<b>Integrity</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of identifying an individual, usually based on a username and password.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither authentication nor authorization</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of giving individuals access to system objects based on their identity.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither congestion control nor quality of service</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	when someone gains access to a server, website, or other sensitive data using someone else's account details called as
((OPTION_A)) THIS IS MANDATORY OPTION	Authorized access
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Access control
((OPTION_C)) This is optional	Unauthorized access
((OPTION_D)) This is optional	access
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Person who tries and exploits a computer system for a reason which can be money, a social cause, fun etc.called as
((OPTION_A)) THIS IS MANDATORY OPTION	Thief
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	hacker
((OPTION_C)) This is optional	attacker
((OPTION_D)) This is optional	criminal
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is an action or event that might compromise the security.
((OPTION_A))  THIS IS MANDATORY OPTION	Threat
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C))  This is optional	Protect
((OPTION_D))  This is optional	attack
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a weakness, a design problem or implementation error in a system that can lead to an unexpected and undesirable event regarding security system
((OPTION_A)) THIS IS MANDATORY OPTION	threat
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C)) This is optional	Attack
((OPTION_D)) This is optional	Protection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a software that operates on different OS which is used to prevent from malicious software.
((OPTION_A)) THIS IS MANDATORY OPTION	Anti virus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	virus
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	risk
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a technique that a hacker uses to stole data by a person for different purposes by psychological manipulation combined with social scenes.
((OPTION_A)) THIS IS MANDATORY OPTION	Social Engineering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IT engineering
((OPTION_C)) This is optional	Psychology
((OPTION_D)) This is optional	Social engineering
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is a software or hardware which is used to filter network traffic based on rules.
((OPTION_A)) THIS IS MANDATORY OPTION	antivirus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firewall
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	keylogger
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not Basic Functions of Antivirus Engines
((OPTION_A)) THIS IS MANDATORY OPTION	Scanning
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity Checking
((OPTION_C)) This is optional	Interception
((OPTION_D)) This is optional	Evesdropping
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is name of antivirus
((OPTION_A))  THIS IS MANDATORY OPTION	AVG
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	PAN
((OPTION_C))  This is optional	SACK
((OPTION_D))  This is optional	FIREP
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hacking tools that can be found very easily by everyone just by googling and they are endless.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Potential Losses due to Security Attacks doesn't involve _____
((OPTION_A)) THIS IS MANDATORY OPTION	Losing your data
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Bad usage of your computer resources
((OPTION_C)) This is optional	Reputation gain
((OPTION_D)) This is optional	Identity theft
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Reputation loss is part of it and not gain

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not malware category?
((OPTION_A))  THIS IS MANDATORY OPTION	Worms
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Viruses
((OPTION_C))  This is optional	Trojans
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	All are malware categories

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ encrypts all your data when your computer gets infected and the second is to roll back the data at a specific time you want.
((OPTION_A)) THIS IS MANDATORY OPTION	ransomware
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firmware
((OPTION_C)) This is optional	middleware
((OPTION_D)) This is optional	Cyber ware
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	this network is created between two secure network devices like two firewalls.
((OPTION_A)) THIS IS MANDATORY OPTION	LAN
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAN
((OPTION_C)) This is optional	VPN
((OPTION_D)) This is optional	WAN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Virtual private network

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Name of the attack when integrity is compromised is called as _____
((OPTION_A))  THIS IS MANDATORY OPTION	Fabrication
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	interception
((OPTION_C))  This is optional	Interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack made on confidentiality is __
((OPTION_A))  THIS IS MANDATORY OPTION	interception
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C))  This is optional	interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	an attack on availability such as a denial of service attack (or DOS)
((OPTION_A))  THIS IS MANDATORY OPTION	Interruption
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Interception
((OPTION_C))  This is optional	fabrication
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An unauthorized party inserts counterfeit objects into the system and basically attacks the authenticity of the system.
((OPTION_A)) THIS IS MANDATORY OPTION	modification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	interruption
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack in which a network service is made degraded or unavailable for legitimate use
((OPTION_A)) THIS IS MANDATORY OPTION	Interruption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is assurance that someone cannot deny something.
((OPTION_A))  THIS IS MANDATORY OPTION	availability
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	confidentiality
((OPTION_C))  This is optional	Access control
((OPTION_D))  This is optional	Non-repudiation
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the purpose of a Denial of Service attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Exploit a weakness in the TCP/IP stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	To execute a Trojan on a system
((OPTION_C))  This is optional	To overload a system so it is no longer operational
((OPTION_D))  This is optional	To shutdown services by turning them off
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	DoS attacks force systems to stop responding by overloading the processing of the system

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What are some of the most common vulnerabilities that exist in a network or system?
((OPTION_A)) THIS IS MANDATORY OPTION	Changing manufacturer, or recommended, settings of a newly installed application.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additional unused features on commercial software packages
((OPTION_C)) This is optional	Utilizing open source application code
((OPTION_D)) This is optional	Balancing security concerns with functionality and ease of use of a system.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Linux is an open source code and considered to have greater security than the commercial Windows environment

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Sniffing is used to perform _____ fingerprinting
((OPTION_A))  THIS IS MANDATORY OPTION	Passive stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active stack
((OPTION_C))  This is optional	Passive banner grabbing
((OPTION_D))  This is optional	Scanned
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Passive stack fingerprinting uses sniffing technologies instead of scanning

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a principle of data security?
((OPTION_A)) THIS IS MANDATORY OPTION	Data Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following attacks is a passive attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Masquerade
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Modification of message
((OPTION_C))  This is optional	Denial of service
((OPTION_D))  This is optional	Traffic analysis
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	In a passive attack, the attacker does not modify any part of the data. His attempt is only to obtain the information and not to modify it. From the mentioned options, this happens only in Traffic analysis in which the attacker monitors the pattern of transmission. The rest other options are examples of active attacks.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options correctly defines the Brute force attack?
((OPTION_A)) THIS IS MANDATORY OPTION	Brutally forcing the user to share the useful information like pins and passwords.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Trying every possible key to decrypt the message.
((OPTION_C)) This is optional	One entity pretends to be some other entity
((OPTION_D)) This is optional	The message or information is modified before sending it to the receiver.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"A key is a string of bits used by a cryptographic algorithm to transform plain text into ciphertext." Which of the following is capable of becoming a key in a cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	Integer value
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Square matrix
((OPTION_C)) This is optional	An array of characters
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	measures taken by any enterprise or organisation to secure its computer network and data using both hardware and software systems is called as
((OPTION_A)) THIS IS MANDATORY OPTION	Network security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Information security
((OPTION_C)) This is optional	Cyber security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	phishing and pre-texting is part of _____
((OPTION_A)) THIS IS MANDATORY OPTION	<b>NETWORK SECURITY</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>CYBER SECURITY</b>
((OPTION_C)) This is optional	Internet security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures to protect the transit data only.
((OPTION_A)) THIS IS MANDATORY OPTION	NETWORK SECURITY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet security
((OPTION_C)) This is optional	Information security
((OPTION_D)) This is optional	Cyber security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is danger for <b>Integrity</b> as well as <b>availability</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is danger for <b>Confidentiality</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ attack attention is on detection.
((OPTION_A))  THIS IS MANDATORY OPTION	Passive attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active Attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ attack attention is on prevention.
((OPTION_A))  THIS IS MANDATORY OPTION	Active attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Due to ___ attack system is always damaged.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	Both active and passive
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	due to _____ attack, there is no any harm to the system.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack is tough to restrict from entering systems or networks.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Attack is easy to prohibited in comparison to _____ attack.
((OPTION_A))  THIS IS MANDATORY OPTION	Active,passive
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive,active
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not active attack
((OPTION_A)) THIS IS MANDATORY OPTION	Denial of service (DoS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	replay
((OPTION_C)) This is optional	Trojans
((OPTION_D)) This is optional	traffic analysis
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In __ <b>attack</b> , an attacker tries to modify the content of the messages.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ <b>attack</b> , an attacker observes the messages, copy them and may use them for malicious purposes
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is state of being free from potential threats or dangers
((OPTION_A)) THIS IS MANDATORY OPTION	privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	freedom
((OPTION_C)) This is optional	security
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ refers to the state of being free from unwanted attention.
((OPTION_A)) THIS IS MANDATORY OPTION	Freedom
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Privacy
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ can be achieved without _____ but _____ cannot be achieved without _____.
((OPTION_A)) THIS IS MANDATORY OPTION	Security,privacy,privacy security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy,security,security,privacy
((OPTION_C)) This is optional	Security,privacy,privacy,privacy
((OPTION_D)) This is optional	Security,security,privacy,security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program refers to a set of protocols and regulations set in place to protect all the confidential information assets and resources that an organization collects and owns.
((OPTION_A)) THIS IS MANDATORY OPTION	Privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program focuses on protecting only personal information such as log in credentials, passwords, etc.
((OPTION_A)) THIS IS MANDATORY OPTION	Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following Algorithms does not belong to symmetric encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	3DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	RC5
((OPTION_D)) This is optional	IDEA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Assymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?
((OPTION_A)) THIS IS MANDATORY OPTION	Not true, the message can also be decrypted with the Public Key.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A so called "one way function with back door" is applied for the encryption
((OPTION_C)) This is optional	The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.
((OPTION_D)) This is optional	The encrypted message contains the function for decryption which identifies the Private Key.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	An one-way function is a function which a computer can calculate quickly, but whose reversal would last months or years. An one-way function with back door can be reversed with the help of a couple of additional information (the back door), but scarcely

	without this information. The information for the back door is contained in the private Key.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the largest disadvantage of the symmetric Encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	More complex and therefore more time-consuming calculations.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Problem of the secure transmission of the Secret Key
((OPTION_C)) This is optional	Less secure encryption function.
((OPTION_D)) This is optional	Isn't used any more
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION))	As there is only one key in the symmetrical encryption, this must

)) This is also optional	be known by both sender and recipient and this key is sufficient to decrypt the secret message. Therefore it must be exchanged between sender and receiver in such a manner that an unauthorized person can in no case take possession of it.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the principle of the encryption using a key?
((OPTION_A)) THIS IS MANDATORY OPTION	The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	The key contains the secret function for encryption including parameters. Only a password can activate the key.
((OPTION_C)) This is optional	All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.
((OPTION_D)) This is optional	The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	C

E	
((EXPLANATION)) This is also optional	The encoding of a message is calculated by an algorithm. If always the same algorithm would be used, it would be easy to crack intercepted messages. However, it isn't possible to invent a new algorithm whenever the old one was cracked, therefor the possibility to parameterize algorithms is needed and this is the assignment of the key. All algorithms must be public, only the keys are secret (principle of Kerckhoff, Dutch cryptographer during 19th century).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If the sender and receiver use different keys, the system is referred to as conventional cipher system
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Such a system is called asymmetric, two-key, or public-key cipher system

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Use Caesar's Cipher to decipher the following HQFUBSWHG WHAW
((OPTION_A)) THIS IS MANDATORY OPTION	ABANDONED LOCK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ENCRYPTED TEXT
((OPTION_C)) This is optional	ABANDONED TEXT
((OPTION_D)) This is optional	ENCRYPTED LOCK
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher uses $C = (p+3) \text{ mod } 26$ to encrypt.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Caesar Cipher is an example of
((OPTION_A)) THIS IS MANDATORY OPTION	Poly-alphabetic Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Mono-alphabetic Cipher
((OPTION_C)) This is optional	Multi-alphabetic Cipher
((OPTION_D)) This is optional	Bi-alphabetic Cipher
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher is an example of Mono-alphabetic cipher, as single alphabets are encrypted or decrypted at a time.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Monoalphabetic ciphers are easier to break because they reflect the frequency of the original alphabet.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis
((OPTION_A)) THIS IS MANDATORY OPTION	Random Polyalphabetic, Plaintext, Playfair
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Random Polyalphabetic, Playfair, Vignere
((OPTION_C)) This is optional	Random Polyalphabetic, Vignere, Playfair, Plaintext
((OPTION_D)) This is optional	Random Polyalphabetic, Plaintext, Beaufort, Playfair
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Random Polyalphabetic is the most resistant to frequency analysis, followed by Vignere, Playfair and then Plaintext.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-
((OPTION_A)) THIS IS MANDATORY OPTION	abqdnnewuwjphfvrrtrfznsdokvl
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	abqdmwwuwjphfvyyrfznydokvl
((OPTION_C)) This is optional	tbqyrvmwuwjphfvyyrfznydokvl
((OPTION_D)) This is optional	baiuvmwuwjphfoeiyrzfznydokvl
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	nlazeiiblji
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nlazeiiblji
((OPTION_C)) This is optional	olaaeiiblki
((OPTION_D)) This is optional	mlaaeiibljk
((OPTION_E)) This is optional. If optional keep empty so that	

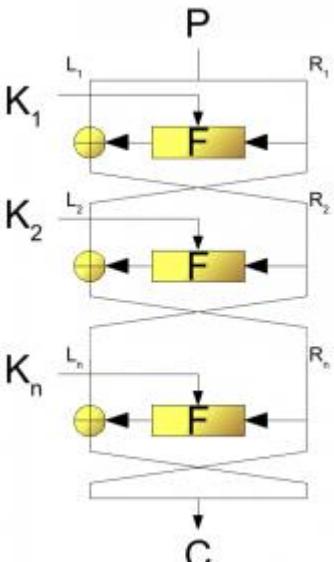
system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m$ (mod 26).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Confusion hides the relationship between the ciphertext and the plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Confusion hides the relationship between the ciphertext and the key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The S-Box is used to provide confusion, as it is dependent on the unknown key.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	false
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The S-Box is used to provide confusion, as it is dependent on the unknown key. The P-Box is fixed, and there is no confusion due to it, but it provides diffusion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This is an example of 
((OPTION_A)) THIS IS MANDATORY OPTION	SP Networks
((OPTION_B)) THIS IS ALSO MANDATORY	Feistel Cipher

OPTION	
((OPTION_C)) This is optional	Hash Algorithm
((OPTION_D)) This is optional	Hill Cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following slows the cryptographic algorithm – 1) Increase in Number of rounds 2) Decrease in Block size 3) Decrease in Key Size 4) Increase in Sub key Generation
((OPTION_A)) THIS IS MANDATORY OPTION	1 and 3
((OPTION_B)) THIS IS ALSO MANDATORY	2 and 3

OPTION	
((OPTION_C)) This is optional	3 and 4
((OPTION_D)) This is optional	2 and 4
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Increase in any of the above 4 leads to slowing of the cipher algorithm i.e. more computational time will be required.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES follows
((OPTION_A)) THIS IS MANDATORY OPTION	Hash Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY	Caesars Cipher

OPTION	
((OPTION_C)) This is optional	Feistel Cipher Structure
((OPTION_D)) This is optional	SP Network
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES Algorithm Cipher System consists of _____ rounds (iterations) each with a round key
((OPTION_A)) THIS IS MANDATORY OPTION	12
((OPTION_B)) THIS IS ALSO MANDATORY	18

OPTION	
((OPTION_C)) This is optional	9
((OPTION_D)) This is optional	16
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The DES Algorithm Cipher System consists of 16 rounds (iterations) each with a round key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES algorithm has a key length of
((OPTION_A)) THIS IS MANDATORY OPTION	128 Bits
((OPTION_B)) THIS IS ALSO MANDATORY	32 Bits

OPTION	
((OPTION_C)) This is optional	64 Bits
((OPTION_D)) This is optional	16 Bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	56 bits are used, the rest 8 bits are parity bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	48, 32
((OPTION_B)) THIS IS ALSO MANDATORY	64,32

OPTION	
((OPTION_C)) This is optional	56, 24
((OPTION_D)) This is optional	32, 32
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____
((OPTION_A)) THIS IS MANDATORY OPTION	Scaling of the existing bits
((OPTION_B)) THIS IS ALSO MANDATORY	Duplication of the existing bits

<b>OPTION</b>	
((OPTION_C)) This is optional	Addition of zeros
((OPTION_D)) This is optional	Addition of ones
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits. This input is first expanded to 48 bits (permutation plus an expansion), that involves duplication of 16 of the bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Initial Permutation table/matrix is of size
((OPTION_A)) THIS IS MANDATORY OPTION	16×8
((OPTION_B)) THIS IS ALSO MANDATORY	12×8

OPTION	
((OPTION_C)) This is optional	8×8
((OPTION_D)) This is optional	4×8
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	There are 64 bits to permute and this requires a 8×8 matrix.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The number of unique substitution boxes in DES after the 48 bit XOR operation are
((OPTION_A)) THIS IS MANDATORY OPTION	8
((OPTION_B)) THIS IS ALSO MANDATORY	4

OPTION	
((OPTION_C)) This is optional	6
((OPTION_D)) This is optional	12
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The substitution consists of a set of 8 S-boxes, each of which accepts 6 bits as input and produces 4 bits as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During decryption, we use the Inverse Initial Permutation (IP-1) before the IP.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	IP-1 is the first step and the last step is IP during decryption.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A preferable cryptographic algorithm should have a good avalanche effect.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Thus statement is true as a change in one bit of the plaintext or one bit of the key should produce a change in many bits of the ciphertext. This is referred to as the avalanche effect.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the size(in bits) of the key in the SDES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	24
((OPTION_B)) THIS IS ALSO MANDATORY	16

OPTION	
((OPTION_C)) This is optional	20
((OPTION_D)) This is optional	10
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	The size of the key in the SDES algorithm is 10 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	GCD(a,b) is the same as GCD( a , b ).
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is true. $\gcd(60,24) = \gcd(60,-24) = 12$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 1160718174 and 316258250 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	882
((OPTION_B)) THIS IS ALSO MANDATORY	770

OPTION	
((OPTION_C)) This is optional	1078
((OPTION_D)) This is optional	1225
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$\text{GCD}(1160718174, 316258250) = 1078$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 102947526 and 239821932 using Euclidean algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	$\text{GCD}(102947526, 239821932) = 6.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 8376238 and 1921023 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	13
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	17
((OPTION_D)) This is optional	7
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	$\text{GCD}(8376238, 1921023) = 13.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 1234 mod 4321 is
((OPTION_A)) THIS IS MANDATORY OPTION	3239
((OPTION_B)) THIS IS ALSO MANDATORY	3213

OPTION	
((OPTION_C)) This is optional	3242
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The multiplicative Inverse of 1234 mod 4321 is 3239.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 550 mod 1769 is
((OPTION_A)) THIS IS MANDATORY OPTION	434
((OPTION_B)) THIS IS ALSO MANDATORY	224

OPTION	
((OPTION_C)) This is optional	550
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The multiplicative Inverse of 550 mod 1769 is 550.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p><b>You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,</b></p> $A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$ <p><b>Is the given matrix 'A', a valid key to be used for encryption?</b></p>
((OPTION_A)) THIS IS MANDATORY OPTION	Yes
((OPTION_B))	No

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Can't be determined
((OPTION_D)) This is optional	Data insufficient
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist.</p> <p>Here, in this case,</p> $  A   = 0$ <p>Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the <a href="#">Hill cipher</a>.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	The input text is divided into two parts: one being left half and another one being right half.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Swapping of the left and right halves are performed after each round.
((OPTION_C)) This is optional	The plain text is converted into a matrix form first
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Among the following given options, chose the strongest encryption technique

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	DES ( Data Encryption Standard))
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Double DES
((OPTION_C)) This is optional	Triple DES
((OPTION_D)) This is optional	AES (Advance Encryption Standard)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	<p><b>Consider the following steps,</b></p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift Rows</li> </ul>

IMAGES ALSO	<p>iii. Mix columns iv. Add round key</p> <p><b>The above steps are performed in each round of which of the following ciphers?</b></p>
((OPTION_A))  THIS IS MANDATORY OPTION	Rail fence cipher
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data Encryption Standard (DES)
((OPTION_C))  This is optional	Advance Encryption Standard (AES)
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ algorithm transforms ciphertext to plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ cipher replaces one character with another character.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ cipher reorders the plaintext characters to create a ciphertext.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the receiver uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either a or b
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is a(n) _____ method adopted by the U.S. government.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	either (a) or (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are _____ ciphers.
((OPTION_A)) THIS IS MANDATORY OPTION	block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	stream
((OPTION_C)) This is optional	field
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ cipher, the same key is used by both the sender and receiver.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ciphers can be categorized into two broad categories: monoalphabetic and polyalphabetic.
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the sender uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a(n) _____ cipher, a pair of keys is used.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	2
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES uses a _____ bit block size and a key size of _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	128; 128 or 256
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64; 128 or 192
((OPTION_C)) This is optional	256; 128, 192, or 256
((OPTION_D)) This is optional	128; 128, 192, or 256
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	It uses a 128-bit block size and a key size of 128, 192, or 256 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Like DES, AES also uses Feistel Structure.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES does not use a Feistel structure. Instead, each full round consists of four separate functions: -byte substitution -Permutation -arithmetic operations over a finite field, and -XOR with a key.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The $4 \times 4$ byte matrices in the AES algorithm are called
((OPTION_A)) THIS IS MANDATORY OPTION	States
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Words
((OPTION_C)) This is optional	Transitions
((OPTION_D)) This is optional	Permutations
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is a type of substitution cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	poly alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition cipher
((OPTION_C)) This is optional	Columnar cipher
((OPTION_D)) This is optional	Rail fence cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In substitution cipher the plain text is replaced by cipher text according to a fixed rule. There are two types of substitution cipher- Mono alphabetic and Poly alphabetic cipher.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following correctly defines poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	a substitution based cipher which uses multiple substitution at different positions
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a substitution based cipher which uses fixed substitution over entire message
((OPTION_C)) This is optional	a transposition based cipher which uses multiple substitution at different positions
((OPTION_D)) This is optional	A transposition based cipher which uses fixed substitution over entire message
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Poly alphabetic cipher is a type of substitution cipher. It uses multiple substitution at different positions in order to cipher the plain text.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a type of poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Rotor cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hill cipher
((OPTION_C)) This is optional	One time pad cipher
((OPTION_D)) This is optional	Affine cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	In poly alphabetic cipher each symbol of plain text is replaced by a different cipher text regardless of its occurrence. Out of the given options, only affine cipher is not a poly alphabetic cipher.

((MARKS)) QUESTION IS OF	2
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	We are provided the plain text "SUN". You need to convert the given plain text into ciphertext under the Ceasar cipher encryption technique. Which of the following options is the correct ciphertext for the given text if the key is 2?
((OPTION_A)) THIS IS MANDATORY OPTION	UWP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NUS
((OPTION_C)) This is optional	WUP
((OPTION_D)) This is optional	QSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>In the Caesar cipher technique, the encryption is performed as follows,</p> $E(P, K) = (P + K) \text{ mod } 26$ <p>Therefore,</p> $E(S, 2) = (18 + 2) \text{ mod } 26 = 20 = U$ $E(U, 2) = (20 + 2) \text{ mod } 26 = 22 = W$ $E(N, 2) = (13 + 2) \text{ mod } 26 = 15 = P$ <p>Hence, the ciphertext is "UWP".</p>

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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following cipher techniques include the involvement of matrix operations in their algorithms of encryption and decryption?
((OPTION_A)) THIS IS MANDATORY OPTION	<u>Hill Cipher</u>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<u>Playfair cipher</u>
((OPTION_C)) This is optional	Both a and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also	The hill cipher includes a square matrix as the key, and in Playfair cipher, we create a 5X5 matrix using the given key string. Hence,

optional	both these ciphers include the use of matrices.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Playfair cipher is an example of _____
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C)) This is optional	transposition cipher
((OPTION_D)) This is optional	additive cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	Playfair cipher is a substitution cipher. It falls under the category of poly alphabetic cipher as it uses multiple substitution at different positions in order to cipher the plain text.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Encryption in Playfair cipher is done using _
((OPTION_A)) THIS IS MANDATORY OPTION	a 5×5 table
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a 13×2 table
((OPTION_C)) This is optional	vigenere table
((OPTION_D)) This is optional	a 6×6 table
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A

((EXPLANATION)) This is also optional	
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the plain text corresponding to cipher text "BPKYFS" if playfair cipher is used with keyword as "SECRET" (assuming j is combined with i)?
((OPTION_A))  THIS IS MANDATORY OPTION	INDIAN
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	WORLD
((OPTION_C))  This is optional	DOLLAR
((OPTION_D))  This is optional	HELLO
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C

((EXPLANATION)) This is also optional	To decrypt the message we follow the reverse procedure. The table is formed in the same manner. Applying this we get the plain text to be "DOLLAR".
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair are identical?
((OPTION_A)) THIS IS MANDATORY OPTION	then that pair is neglected
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a null(or x) is added in between the letters
((OPTION_C)) This is optional	one of the identical letter is replaced by some other letter
((OPTION_D)) This is optional	then both of the letters are replaced by the letter appearing just next in the row
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	In playfair cipher if the letters in a pair are identical then a null is added in between the letters. Any letter can be used as a null as long as that letter is not the one being repeated.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same row?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter at the corner of the row
((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	If the letters in a pair appear in same row then they are replaced by the letters appearing immediately right to them respectively. If the element to be replaced appears at the corner of the row then we wrap around to the left side of that row.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the ciphered text if the string “SANFOUNDRY” is given as input to the code of playfair cipher with keyword as “SECRET” (assuming j is combined with i)?
((OPTION_A)) THIS IS MANDATORY OPTION	ZHQAPNPAFR
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AHQAPNPAFR
((OPTION_C)) This is optional	HAQAPNPAFR
((OPTION_D)) This is optional	QHAAPNPAFR
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	B

E	
((EXPLANATION)) This is also optional	<p>For encrypting the plain text using playfair cipher we use a <math>5 \times 5</math> table that is constructed by using keyword. Then we apply rules for encryption in order to get the censored text. Table is given as under-</p> <p>S E C R T</p> <p>A B D F G</p> <p>H I K L M</p> <p>N O P Q U</p> <p>V W X Y Z</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letters at the corner of the row
((OPTION_D))	that pair is neglected

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	If the letters in a pair appear in the same column then they are replaced by the letters appearing immediately below them respectively. If the element to be replaced appears at the corner of the column then we wrap around to the top side of that column.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair does not appear in same row or column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter of the same row at the corner of the rectangle defined by the original pair respectively

((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	If the letters in a pair does not appear in same row or column then they are replaced by the letters of the same row at the corner of the rectangle defined by the original pair respectively. The order of letters should be maintained.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Columnar cipher falls under the category of?
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C))	additive cipher

This is optional	
((OPTION_D)) This is optional	Transposition cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Columnar cipher is a transposition cipher. It falls under the category of transposition cipher as it encrypts the plain text by rearranging its letters.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following ciphered text would have NOT used transposition cipher for encryption of the plain text "CIPHER"?
((OPTION_A)) THIS IS MANDATORY OPTION	EPIHRC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EHIPCR
((OPTION_C))	DTIPRC

This is optional	
((OPTION_D))	HRIPEC
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	We know that transposition cipher encrypts the plain text by shuffling the letters of the plain text. So out of the given options, only “DTIPRC” does not have the same set of letters as “CIPHER”.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many columns do we need to have in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	4
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	5
((OPTION_C))	6

This is optional	
((OPTION_D))	7
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So in this case it will be equal to 6.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the encrypted text corresponding to plain text “CLASSIFIED” using columnar transposition cipher with a keyword as “GAMES”?
((OPTION_A)) THIS IS MANDATORY OPTION	LFDSIASECI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SECIAISDFL
((OPTION_C))	CILFAISESD

This is optional																					
((OPTION_D))	IFSECIAISD																				
This is optional																					
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CH OICE)) Either A or B or C or D or E	D																				
((EXPLANATION )) This is also optional	<p>For encrypting using columnar cipher we have to arrange the letters of the plain text in a table which has the same number of columns as the letters of the keyword. Then the letters of the keyword are arranged in alphabetical order and we read along each column.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>1</td><td>4</td><td>2</td><td>5</td></tr> <tr><td>G</td><td>A</td><td>M</td><td>E</td><td>S</td></tr> <tr><td>C</td><td>L</td><td>A</td><td>S</td><td>S</td></tr> <tr><td>I</td><td>F</td><td>I</td><td>E</td><td>D</td></tr> </table> <p>So the ciphered text will be “IFSECIAISD”.</p>	3	1	4	2	5	G	A	M	E	S	C	L	A	S	S	I	F	I	E	D
3	1	4	2	5																	
G	A	M	E	S																	
C	L	A	S	S																	
I	F	I	E	D																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many rows will the letters of the plain text occupy in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B))	2

THIS IS ALSO MANDATORY OPTION																					
((OPTION_C)) This is optional	3																				
((OPTION_D)) This is optional	4																				
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CHOICE)) Either A or B or C or D or E	B																				
((EXPLANATION)) This is also optional	<p>Explanation: The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So when we will write the letters of the plain text row wise then there will be 2 rows of plain text in this case. The table is shown below :-</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>S</td> <td>E</td> <td>C</td> <td>R</td> <td>E</td> <td>T</td> </tr> <tr> <td>1</td> <td>S</td> <td>A</td> <td>N</td> <td>F</td> <td>O</td> <td>U</td> </tr> <tr> <td>2</td> <td>N</td> <td>D</td> <td>R</td> <td>Y</td> <td></td> <td></td> </tr> </table>	S	E	C	R	E	T	1	S	A	N	F	O	U	2	N	D	R	Y		
S	E	C	R	E	T																
1	S	A	N	F	O	U															
2	N	D	R	Y																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following statement is not true regarding columnar transposition cipher?
((OPTION_A)) THIS IS	probability of error is high while deciphering

MANDATORY OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	it cannot be combined with other ciphers
((OPTION_C)) This is optional	it is a traditional symmetric cipher
((OPTION_D)) This is optional	it is a weak cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Although columnar transposition cipher is a weak cipher in itself. But it can be combined with other substitution ciphers so as to improve its security. The probability of error remains high while decoding columnar cipher as it is a lengthy process

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is another data hiding technique which can be used in conjunction with cryptography for the extra-secure method of protecting data.
((OPTION_A))	Cryptography

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Steganography
((OPTION_C))  This is optional	Tomography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Steganography is the technique of hiding data in another raw data. Steganography is another data hiding technique which can be used in conjunction with cryptography for an extra-secure method of protecting data.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is hiding of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Steganography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Steganography helps in hiding any form of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ tool permits security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Chorography
((OPTION_D))  This is optional	Steganography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	A steganography tool is a software tool that permits a security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main motive for using steganography is that hackers or other users can hide a secret message behind a _____

((OPTION_A)) THIS IS MANDATORY OPTION	special file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ordinary file
((OPTION_C)) This is optional	program file
((OPTION_D)) This is optional	encrypted file
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	The main motive for using steganography is that hackers or other users can hide a secret message behind ordinary files. Some steganography tools are SSuite Picsel, rSteg etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	People will normally think it as a normal/regular file and your secret message will pass on without any _____

((OPTION_A)) THIS IS MANDATORY OPTION	Suspicion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	cracking
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Steganography techniques help hackers or other users to conceal covert message behind regular files. People will normally think it as a normal/regular file and your secret message will pass on without any suspicion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	By using _____ you can diminish the chance of data leakage

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C)) This is optional	Chorography
((OPTION_D)) This is optional	Steganography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Hackers or other cyber criminals target ordinary files to hide different data or information within another data file. By using steganography, you can diminish the chance of data leakage.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Which of the following is a mode of operation for the Block ciphers in cryptography?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Electronic Code Book (ECB)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher Block Chaining (CBC)
((OPTION_C)) This is optional	Counter (CTR) mode
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	For which of the following should EBC (Electronic Code Book) process not be used for encryption?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	For large block sizes
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	For fixed block sizes
((OPTION_C)) This is optional	For small block sizes
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	It is preferred that the block size in the ECB technique must be greater than 64 bits. If not, the text is padded to make it of the required length. This is due to some particular words and phrases that may be reused again often so that the same repetitive part of ciphertext can emerge as mixed.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	Which of the following is the main disadvantage of the ECB (Electronic Code Book)?

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	It requires large block size
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Padding is done to make the plain text divisible into blocks of fixed size
((OPTION_C)) This is optional	It is prone to cryptanalysis since there is a direct relationship between plain text and cipher text.
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	In <u>ECB</u> , there lies a direct relation between the plain text and the ciphertext. Therefore, it is easy for an outsider to break the encryption logic and steal the data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options is not correct according to the definition of the Cipher Block Chaining (CBC)?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC is a mode of operation for stream ciphers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Initialization vector (IV) is used in CBC in the initial phase.
((OPTION_C)) This is optional	It has better resistive nature towards cryptanalysis than ECB
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<a href="#">CBC</a> which stands for Cipher Block chaining is a mode of operation for block ciphers and not for stream ciphers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following modes of operations can be followed for both stream ciphers as well as block ciphers?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC (Cipher Block Chaining)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECB (Electronic Code Book)
((OPTION_C)) This is optional	CFB (Cipher text Feed Back)
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	<b>CFB</b> is primarily a mode to derive some characteristics of a stream cipher from a block cipher on the cryptography in cryptoanalysis.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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<p>((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO</p>	<p>All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?</p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift rows</li> <li>iii. Mix columns</li> <li>iv. Add round key</li> </ul>
<p>((OPTION_A)) THIS IS MANDATORY OPTION</p>	<p>i</p>
<p>((OPTION_B)) THIS IS ALSO MANDATORY OPTION</p>	<p>iii</p>
<p>((OPTION_C)) This is optional</p>	<p>All of the mentioned</p>
<p>((OPTION_D)) This is optional</p>	<p>None of the mentioned</p>
<p>((OPTION_E)) This is optional. If optional keep empty so that system will skip this option</p>	
<p>((CORRECT_CHOICE)) Either A or B or C or D or E</p>	<p>B</p>
<p>((EXPLANATION)) This is also optional</p>	<p>In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.</p>

<p>((MARKS))</p>	<p>1</p>
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"The number of rounds in the AES algorithm depends upon the key size being used." Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	128 key size: 10 rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	192 key size: 12 rounds
((OPTION_C)) This is optional	256 key size: 14 rounds
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Avalanche effect
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Completeness
((OPTION_C)) This is optional	Both a. and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For the AES-128 algorithm there are _____ similar rounds and _____ round is different.
((OPTION_A)) THIS IS MANDATORY OPTION	2 pair of 5 similar rounds ; every alternate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	9 ; the last
((OPTION_C)) This is optional	8 ; the first and last
((OPTION_D)) This is optional	10 ; no
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the 4 operations are false for each round in the AES algorithm? i) Substitute Bytes ii) Shift Columns iii) Mix Rows iv) XOR Key
((OPTION_A)) THIS IS MANDATORY OPTION	i) only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii) iii) and iv)
((OPTION_C)) This is optional	ii) and iii)
((OPTION_D)) This is optional	only iv
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES rounds involve substitute bytes, shift rows, mix columns and addition of round key.

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There is an addition of round key before the start of the AES round algorithms.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In AES the final round contains only three transformations, and there is an initial single transformation (Add Round Key) before the first round which can be considered Round 0. Each transformation takes $4 \times 4$ matrixes as input and produces a $4 \times 4$ matrix as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1																
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the Shifted Row transformation for the matrix bellow?  <table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_A))  THIS IS MANDATORY OPTION	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
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30	D7	AF	FE														
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	<table border="1"> <tr> <td>72</td><td>2B</td><td>D7</td><td>FE</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>63</td><td>AD</td><td>01</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	72	2B	D7	FE	A4	6B	6B	77	63	AD	01	F0	30	D7	AF	FE
72	2B	D7	FE														
A4	6B	6B	77														
63	AD	01	F0														
30	D7	AF	FE														
((OPTION_C))  This is optional	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>77</td><td>A4</td><td>6B</td><td>6B</td></tr> <tr> <td>F0</td><td>63</td><td>AD</td><td>01</td></tr> <tr> <td>FE</td><td>30</td><td>D7</td><td>AF</td></tr> </table>	FE	72	2B	D7	77	A4	6B	6B	F0	63	AD	01	FE	30	D7	AF
FE	72	2B	D7														
77	A4	6B	6B														
F0	63	AD	01														
FE	30	D7	AF														
((OPTION_D))  This is optional	<table border="1"> <tr> <td>D7</td><td>FE</td><td>72</td><td>2B</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>01</td><td>AD</td><td>63</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	D7	FE	72	2B	A4	6B	6B	77	01	AD	63	F0	30	D7	AF	FE
D7	FE	72	2B														
A4	6B	6B	77														
01	AD	63	F0														
30	D7	AF	FE														

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The Shift Rows transformation consists of: -Not shifting the first row of the state array at all. -Circularly shifting the second row by one byte to the left. -Circularly shifting the third row by two bytes to the left, and -Circularly shifting the last row by three bytes to the left.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not weak key in DES
((OPTION_A)) THIS IS MANDATORY OPTION	0x0101010101010101
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0xEFABFEFEFEFEFEFE
((OPTION_C)) This is optional	0x1F1F1F1F0E0E0E0E
((OPTION_D))	0xFFFFFFFFFFFFFF

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple-DES has _____ keys.
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	2
((OPTION_C)) This is optional	5
((OPTION_D))	4

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a encryption technique which uses two instance of DES on same plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	Double DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripple DES
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack which can be used to break through double DES.
((OPTION_A)) THIS IS MANDATORY OPTION	Brute force
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	meet-in-the middle
((OPTION_C)) This is optional	Timing
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple DES involve __
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption, Decryption, Decryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption ,Encryption, Encryption
((OPTION_C)) This is optional	Decryption ,Encryption, Decryption
((OPTION_D))	Encryption, Decryption, Encryption

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ involves feeding the successive output blocks from the underlying block cipher back to it
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	OFB
((OPTION_D))	CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is counter-based version of CFB mode without the feedback
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	counter
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below mode is independent of previous output
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	CFB
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Errors get propagated in all modes except ___and ___
((OPTION_A)) THIS IS MANDATORY OPTION	ECB,COUNTER
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC,COUNTER
((OPTION_C)) This is optional	CFB,COUNTER
((OPTION_D))	OFB,CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Patterns are not preserved in ___ mode
((OPTION_A)) THIS IS MANDATORY OPTION	CBC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CFB
((OPTION_C)) This is optional	Both CBC and CFB
((OPTION_D))	ECB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A small change in plaintext results in the very great change in the cipher text indicates which characteristic
((OPTION_A)) THIS IS MANDATORY OPTION	completeness
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Strong key
((OPTION_C)) This is optional	Avalanche effect
((OPTION_D))	All of the above

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ ciphers, the plaintext is processed one bit at a time i.e. one bit of plaintext is taken, and a series of operations is performed on it to generate one bit of cipher text.
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	More number of _____ provide more secure system in feistel cipher.
((OPTION_A)) THIS IS MANDATORY OPTION	rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	keys
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	Function
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The number of rounds used in a Feistel Cipher depends on desired security from the system. More number of rounds provide more secure system. But at the same time, more rounds mean the inefficient slow encryption and decryption processes..

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem _____ keys are used for encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different
((OPTION_C)) This is optional	Encryption Keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	In conventional cryptosystem, same keys are used for encryption and decryption where as in public key cryptosystem different keys are used.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem which is kept as public?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption keys
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption keys
((OPTION_C)) This is optional	Encryption & Decryption keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	In public key cryptosystem, the encryption keys are kept as public where as decryption keys are kept as secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptosystem uses same key for both encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which should be kept as a secret in public key cryptosystem?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption key
((OPTION_C)) This is optional	Encryption & Decryption key
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	In public key cryptosystem, Encryption is done using public key . decryption key needs to be kept as a secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Euler's totient function is determined by
((OPTION_A)) THIS IS MANDATORY OPTION	$pq$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(p-1)(q-1)$
((OPTION_C)) This is optional	$(p+1)(q+1)$
((OPTION_D)) This is optional	$p/q$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The Euler's totient function is determined by $(p-1)(q-1)$ , where p and q are kept hidden.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'?
((OPTION_A))  THIS IS MANDATORY OPTION	p and q should be divisible by $\Phi(n)$
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	p and q should be co-prime
((OPTION_C))  This is optional	p and q should be prime
((OPTION_D))  This is optional	p/q should give no remainder
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	'p' and 'q' should have large random values which are both prime numbers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.
((OPTION_A)) THIS IS MANDATORY OPTION	(p)/(q)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	(p)(q)
((OPTION_C)) This is optional	(p-1)(q-1)
((OPTION_D)) This is optional	(p+1)(q+1)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$\Phi(n) = (p-1)(q-1).$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	$\gcd(e, \Phi(n))=1$ ; and $1 < e < \Phi(n)$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $e=17$ . Apply RSA algorithm where message=5 and find the cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	C=80
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	C=92
((OPTION_C)) This is optional	C=56
((OPTION_D)) This is optional	C=23
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 209.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	54
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	43
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	24
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$n = pq = 11 \times 19 = 209$ . $C=M^e \text{ mod } n ; C=5^{17} \text{ mod } 209 ; C = 80 \text{ mod } 209$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	$n = 35; e = 5; C = 10$ . What is the plaintext (use RSA) ?
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	7
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Use RSA system to decrypt and get PT = 5.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where PT message=88 and thus find the CT.
((OPTION_A)) THIS IS MANDATORY OPTION	23
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64
((OPTION_C)) This is optional	11
((OPTION_D)) This is optional	54
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=88^7 \text{ mod } 187 ; C = 11 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where Cipher message=11 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	88
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	122
((OPTION_C)) This is optional	143
((OPTION_D)) This is optional	111
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=11^{23} \text{ mod } 187 ; C = 88 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an RSA system the public key of a given user is $e = 31$ , $n = 3599$ . What is the private key of this user?
((OPTION_A))  THIS IS MANDATORY OPTION	3031
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	2412
((OPTION_C))  This is optional	2432
((OPTION_D))  This is optional	1023
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	By trial and error, we determine that $p = 59$ and $q = 61$ . Hence $f(n) = 58 \times 60 = 3480$ . Then, using the extended Euclidean algorithm, we find that the multiplicative inverse of 31 modulo $f(n)$ is 3031

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compute private key (d, p, q) given public key (e=23, n=233 ´ 241=56,153).
((OPTION_A)) THIS IS MANDATORY OPTION	35212
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	12543
((OPTION_C)) This is optional	19367
((OPTION_D)) This is optional	32432
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Since n=233 ´ 241=56,153, p=233 and q=241 $f(n) = (p - 1)(q - 1) = 55,680$ Using Extended Euclidean algorithm, we obtain $d = 23^{-1} \text{ mod } 55680 = 19,367.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a RSA cryptosystem a particular A uses two prime numbers $p = 13$ and $q = 17$ to generate her public and private keys. If the public key of A is 35. Then the private key of A is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	13
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	17
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In an RSA cryptosystem, for public key: $\text{GCD}(\phi(n), e) = 1$ And, for private key:

	$(e * d) \bmod \phi(n) = 1$ Where, $\phi(n) = (p - 1)*(q - 1) = (13 - 1)(17 - 1) = 12 * 16 = 192$ Such that $1 < e, d < \phi(n)$ Therefore, the private key is: $(35 * d) \bmod \phi(n) = 1$ $d = 11$
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA public key cryptosystem, which one of the following numbers will always be largest?
((OPTION_A)) THIS IS MANDATORY OPTION	E
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	N
((OPTION_C)) This is optional	P
((OPTION_D)) This is optional	Q
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The number $n$ is generated as the product of the two large prime numbers $p$ and $q$ . Therefore, $n$ must always be greater than both $p$ and $q$ . Furthermore, it is an algorithm constraint that $e$ must be chosen such that $e$ is smaller than $n$ . Therefore, in RSA cryptography $n$ is always the largest of the four variables shown in the options to this question.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If Richard wants to send an encrypted message to Sue using a public key cryptosystem, which key does he use to encrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Richard must encrypt the message using Sue's public key so that Sue can decrypt it using her private key. If he encrypted the message with his own public key, the recipient would need to know Richard's private key to decrypt the message. If he encrypted it with his own private key, any user could decrypt the message using Richard's freely available public key. Richard could not encrypt the message using Sue's private key because he does not have access to it. If he did, any user could decrypt it using Sue's freely available public key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Acme Widgets currently uses a 1,024-bit RSA encryption standard companywide. The company plans to convert from RSA to an elliptic curve cryptosystem. If it wishes to maintain the same cryptographic strength, what ECC key length should it use?
((OPTION_A)) THIS IS MANDATORY OPTION	160 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	512 bits
((OPTION_C)) This is optional	1,024 bits
((OPTION_D)) This is optional	2,048 bits

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The elliptic curve cryptosystem requires significantly shorter keys to achieve encryption that would be the same strength as encryption achieved with the RSA encryption algorithm. A 1,024-bit RSA key is cryptographically equivalent to a 160-bit elliptic curve cryptosystem key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Richard received an encrypted message sent to him from Sue. Which key should he use to decrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sue would have encrypted the message using Richard's public key. Therefore, Richard needs to use the complementary key in the key pair, his private key, to decrypt the message.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One commonly used public-key cryptography method is the _____ algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the objective of Diffie-Hellman key exchange?
((OPTION_A)) THIS IS MANDATORY OPTION	To protect encrypted data from man-in-the-middle attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	To perform mutual authentication on both sides
((OPTION_C)) This is optional	To prove to another party that one holds a secret key without revealing it
((OPTION_D)) This is optional	To establish a shared secret key on both sides

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The security of RSA encryption relies on which assumption?
((OPTION_A)) THIS IS MANDATORY OPTION	It is computationally infeasible to compute a GCD of two large numbers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is computationally infeasible to factor a large number.
((OPTION_C)) This is optional	It is computationally infeasible to test whether a large number is prime.
((OPTION_D)) This is optional	It is computationally infeasible to compute a square modulo n.

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is asymmetric cryptography?
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	Both ECC and RSA
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below requires less hardware capacity because of less key size
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Diffie Hellman is _____
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption algorithm
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	D-H is key exchange algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Timing attack on RSA can be avoided by __
((OPTION_A)) THIS IS MANDATORY OPTION	Padding extra bits in message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Adding delays
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below algorithm is used in cryptocurrency?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AES
((OPTION_C)) This is optional	ECC
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When a hash function is used to provide message authentication, the hash function value is called to as:
((OPTION_A)) THIS IS MANDATORY OPTION	Message Field
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Message Digest
((OPTION_C)) This is optional	Message Score
((OPTION_D)) This is optional	Message Leap

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	We know that the hash function providing message authentication is referred to as message digest in cryptography.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following are used to create a message digest  a. RSA b. SHA-1 c. DES d. MD5
((OPTION_A)) THIS IS MANDATORY OPTION	A&B
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	B&C
((OPTION_C)) This is optional	A&C

((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	They are Message digest algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the output of a cryptographic hash function?
((OPTION_A)) THIS IS MANDATORY OPTION	A variable set of bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A fixed set of bits, derived from one-way mathematical operations
((OPTION_C)) This is optional	An output which may be easily discovered by an adversary

((OPTION_D)) This is optional	Outputs of such functions are of no importance
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest algorithms are primarily used to provide _____
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	inegrity

((OPTION_D)) This is optional	authorization
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a message digest algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IDEA
((OPTION_C)) This is optional	MD5

((OPTION_D)) This is optional	RSA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the data must arrive at the receiver exactly as sent.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the receiver is ensured that the message is coming from the intended sender, not an imposter.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ function creates a message digest out of a message
((OPTION_A)) THIS IS MANDATORY OPTION	encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	hash

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a trusted third party that assigns a symmetric key to two parties.
((OPTION_A)) THIS IS MANDATORY OPTION	Public directory
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Certificate authority
((OPTION_C)) This is optional	Both

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature provides _____.
((OPTION_A)) THIS IS MANDATORY OPTION	authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nonrepudiation
((OPTION_C)) This is optional	both (a) and (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature needs a(n) _____ system
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a federal or state organization that binds a public key to an entity and issues a certificate.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	means that a sender must not be able to deny sending a message that he sent.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication

((OPTION_D)) This is optional	Nonrepudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a popular session key creator protocol that requires an authentication server and a ticket-granting server.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The MD5 is a message digest algorithm developed by
((OPTION_A)) THIS IS MANDATORY OPTION	Ron Rivest.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	WhiteField Diffie.
((OPTION_C)) This is optional	Martin Hellman.

((OPTION_D)) This is optional	Diffie-Hellman.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 is quite fast and produces _____ message digests
((OPTION_A)) THIS IS MANDATORY OPTION	512 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1024 bits
((OPTION_C)) This is optional	128 bits

((OPTION_D)) This is optional	64 bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The first step of MD5 is
((OPTION_A)) THIS IS MANDATORY OPTION	add padding bits to original messsge
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	adding append length bits
((OPTION_C)) This is optional	divide the input into 512 bit blocks

((OPTION_D)) This is optional	compression
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the process block divides the 512 bits into _____ sub blocks.
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	24
((OPTION_C)) This is optional	32

((OPTION_D)) This is optional	84
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which financial institutions have a relationship with merchants for processing payment card authorizations and payments?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Acquirer
((OPTION_C)) This is optional	Merchant

((OPTION_D)) This is optional	Dealer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following contains the order information such as which items are being purchased?
((OPTION_A)) THIS IS MANDATORY OPTION	PI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	OI
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Payment information can be encrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	customer's private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	merchant public key
((OPTION_C)) This is optional	one-time session key.

((OPTION_D)) This is optional	customer's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature envelope is decrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	merchant private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	payment's private key
((OPTION_C)) This is optional	payment public key

((OPTION_D)) This is optional	merchant's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ will ensure the merchant and their payment information
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Dual signature

((OPTION_D)) This is optional	Certificate authority
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SET provides an authentication with the help of _____
((OPTION_A)) THIS IS MANDATORY OPTION	dual signature
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	digital certificate
((OPTION_C)) This is optional	payment's public key

((OPTION_D)) This is optional	payment's private key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are very crucial for success of RSA algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	Integers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Prime numbers
((OPTION_C)) This is optional	Negative number

((OPTION_D)) This is optional	Fraction
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ acts as financial institutions who provides a payment card to a card holder
((OPTION_A)) THIS IS MANDATORY OPTION	payment gateway
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	card holder
((OPTION_C)) This is optional	acquirer

((OPTION_D)) This is optional	issuer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	ISSUER means Bank

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who will be responsible for processing the payment from the customer's account to the merchant account?
((OPTION_A)) THIS IS MANDATORY OPTION	Acquirer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Issuer

((OPTION_D)) This is optional	Payment gateway
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cardholder combines the PIMD and OIMD and hashes them together to form
((OPTION_A)) THIS IS MANDATORY OPTION	OPMD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POMD
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which process will ensure that the issues of the credit card is an approved transactions?
((OPTION_A)) THIS IS MANDATORY OPTION	Payment capture
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Payment authorization
((OPTION_C)) This is optional	Purchase request

((OPTION_D)) This is optional	Purchase reply
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is used for hiding the payment information from the merchant.
((OPTION_A)) THIS IS MANDATORY OPTION	SET
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	SHTTP

((OPTION_D)) This is optional	TSP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A __word buffer is used to compute the message digest in MD5
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5

((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	4 WORD A,B,C,D

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the message is <b>padded</b> so that its length is divisible by ____
((OPTION_A)) THIS IS MANDATORY OPTION	32
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	128
((OPTION_C)) This is optional	512

((OPTION_D)) This is optional	1024
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 should meet requirements:
((OPTION_A)) THIS IS MANDATORY OPTION	It is impossible to generate two inputs that cannot produce the same hash function
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is impossible to generate a message having the same hash value
((OPTION_C)) This is optional	Both of the above

((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 takes an input of ___ size and produces an output if a 128-bit hash value
((OPTION_A)) THIS IS MANDATORY OPTION	Any
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Multiple of 512
((OPTION_C)) This is optional	Multiple of 128

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following best describes sniffing?
((OPTION_A)) THIS IS MANDATORY OPTION	Gathering packets to locate IP addresses, in order to initiate a session hijacking attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Analyzing packets in order to locate the sequence number to start a session hijack
((OPTION_C)) This is optional	Monitoring TCP sessions in order to initiate a session-hijacking attack

((OPTION_D)) This is optional	Locating a host susceptible to a session-hijack attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sniffing is usually used to locate the sequence number, which is necessary for a session hijack.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The secret key between members needs to be created as a _____ key when two members contact Kerberos system
((OPTION_A)) THIS IS MANDATORY OPTION	Public
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session
((OPTION_C))	complimentary

This is optional	
((OPTION_D))	None of these
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main components of Kerberos are:
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	database

This is optional	
((OPTION_D))	All of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ performs the initial authentication and ticket for Ticket Granting Service
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	Database

This is optional	
((OPTION_D))	Kerberos
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Authentication Server verifies access right of users in __
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TG server
((OPTION_C))	Database

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ issues the ticket for the Server
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	DB

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is primarily used for _____
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))	confidentiality

This is optional	
((OPTION_D))	authorization
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The KDC encrypts the TGT with a password that only the _____ knows.
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	Server

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Because no one else needs to be able to see the contents.  It's for the server to keep track of the client

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The essence of Kerberos' system is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	One way authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity

((OPTION_C)) This is optional	Mutual authentication
((OPTION_D)) This is optional	Public authentication
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not an element/field of the X.509 certificates?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer Name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Serial Modifier

((OPTION_C)) This is optional	Issuer unique Identifier
((OPTION_D)) This is optional	Signature
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 certificate recommends which cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	DES

((OPTION_C)) This is optional	AES
((OPTION_D)) This is optional	Rabin
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The standard used in digital certificates that defines its structure, fields, and Values is
((OPTION_A)) THIS IS MANDATORY OPTION	Kerberos
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	End to end encryption

((OPTION_C)) This is optional	X.509
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 Certificates includes
((OPTION_A)) THIS IS MANDATORY OPTION	Version
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	signature algorithm identifier

((OPTION_C)) This is optional	period of validity
((OPTION_D)) This is optional	extension fields
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CH OICE)) Either A or B or C or D or E	E
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ defines a framework for the provision of authentication services by the X.500 directory
((OPTION_A)) THIS IS MANDATORY OPTION	X.509
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.508

((OPTION_C)) This is optional	X.505
((OPTION_D)) This is optional	X.609
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature is a mathematical technique used to validate the _____ and _____ of a message, software or digital document
((OPTION_A)) THIS IS MANDATORY OPTION	Authenticity, integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity, confidentiality

((OPTION_C)) This is optional	Integrity,non-repudiation
((OPTION_D)) This is optional	Authenticity,confidentiality
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature involves ____ and ____
((OPTION_A)) THIS IS MANDATORY OPTION	Signature verification ,validation
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Signature creation,verification

((OPTION_C)) This is optional	Signature creation,deletion
((OPTION_D)) This is optional	Signature validation,modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest is computed by applying hash function on the message and then message digest is encrypted using _____ key of sender to form the digital signature.
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Session
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature , Receiver decrypts the digital signature using the _____ key of sender
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Secret
((OPTION_D)) This is optional	Session
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature, The message digest computed by ___ and the message digest (got by decryption on digital signature) need to be ___ for ensuring integrity
((OPTION_A)) THIS IS MANDATORY OPTION	Receiver,same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Receiver,different

((OPTION_C)) This is optional	Sender,same
((OPTION_D)) This is optional	Sender,different
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is like a fingerprint or an attachment to a digital document that ensures its authenticity and integrity.
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Digital signature

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature follows _____
((OPTION_A)) THIS IS MANDATORY OPTION	Digital Signature Standard (DSS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.509 standard format

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In diffie-hellman algorithm, if Alice and Bob wish to communicate with each other, they first agree between them a large prime number n, and ____ g
((OPTION_A)) THIS IS MANDATORY OPTION	Generator
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Small prime number

((OPTION_C)) This is optional	Natural number
((OPTION_D)) This is optional	Factorial
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm if $X_a$ is private key of user then public key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$g^{X_a} \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$n^{X_a} \text{ mod } n$

((OPTION_C)) This is optional	$g^n \bmod p$
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, ____ keys of each other should be known
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session

((OPTION_C)) This is optional	Public
((OPTION_D)) This is optional	No
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm,shared secret key is calculated by _____
((OPTION_A)) THIS IS MANDATORY OPTION	$(g^a \text{ mod } n)^b \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(g^b \text{ mod } n)^a \text{ mod } n$

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, the resulting shared secret will be the ___ every time
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different

((OPTION_C)) This is optional	Maybe same
((OPTION_D)) This is optional	Can't say
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ the first widely used method of safely developing and exchanging keys over an insecure channel
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSS

((OPTION_C)) This is optional	Diffie Hellman
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suppose that two parties A and B wish to set up a common secret key (D-H key) between themselves using the Diffie Hellman key exchange technique. They agree on 7 as the modulus and 3 as the primitive root. Party A chooses 2 and party B chooses 5 as their respective secrets. Their D-H key is
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4

((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prime value $q = 17$ and primitive root $= 5$ . If Alice's secret key is 4 and Bob's secret key is 6, what is the shared secret key they exchanged?
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	17

((OPTION_C)) This is optional	18
((OPTION_D)) This is optional	19
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each round of MD5 consist of ____ operations
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15

((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	18
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each buffer of MD5 algorithm is ____ bit long
((OPTION_A))  THIS IS MANDATORY OPTION	32
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	64

((OPTION_C)) This is optional	128
((OPTION_D)) This is optional	512
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	RSA is _____ cryptography
((OPTION_A)) THIS IS MANDATORY OPTION	Asymmetric
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Value generated by hash function is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Message digest
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hash

((OPTION_C)) This is optional	MAC
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not service of digital signature
((OPTION_A))  THIS IS MANDATORY OPTION	Authentication to message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data integrity

((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	____ digitally signs this entire information and includes digital signature in the certificate
((OPTION_A)) THIS IS MANDATORY OPTION	CA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	KDC

((OPTION_C)) This is optional	PKI
((OPTION_D)) This is optional	DB
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA ,e is used as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Euler's totient
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, d is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key
((OPTION_C)) This is optional	Totient function
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

This sheet is for 1 Mark questions								
S.r No	Question	Image	a	b	c	d	Correct Answer	
1	_____ is the practice and precautions taken to protect valuable information from unauthorized access, recording, disclosure or destruction.		a) Network Security a) Cloud workload protection platforms a) Bug a) Cyber-crime a) Triangle a) Closure a) Confidentiality a) Confidentiality a) Confidentiality	b) Database Security b) Cloud security b) Threat b) Cyber Attack b) Diagonal b) Disclosure b) Integrity b) Integrity b) Integrity	c) Information Security c) AWS c) Vulnerability c) System hijacking c) Ellipse c) Disaster c) Authentication c) Authentication c) Non-repudiation	d) Physical Security d) One Drive d) Attack d) Digital crime d) Circle d) Disposal d) Availability d) Non-repudiation d) Availability	c	
2	_____ platforms are used for safety and protection of information in the cloud.		a) Cloud workload protection platforms	protocols	c) AWS	d) One Drive	a	
3	Compromising confidential information comes under _____		a) Bug	b) Threat	c) Vulnerability	d) Attack	b	
4	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____		a) Cyber-crime	b) Cyber Attack	c) System hijacking	d) Digital crime	b	
5	The CIA triad is often represented by which of the following?		a) Triangle	b) Diagonal	c) Ellipse	d) Circle	a	
6	Related to information security, confidentiality is the opposite of which of the following?		a) Closure	b) Disclosure	c) Disaster	d) Disposal	b	
7	When you use the word _____ it means you are protecting your data from getting disclosed.		a) Confidentiality	b) Integrity	c) Authentication	d) Availability	a	
8	_____ means the protection of data from modification by unknown users.		a) Confidentiality	b) Integrity	c) Authentication	d) Non-repudiation	b	
9	_____ of information means, only authorized users are capable of accessing the information. This helps in identifying the origin of information and authentic user. This referred to here as _____		a) Confidentiality	b) Integrity	c) Non-repudiation	d) Availability	d	
10	_____		a) Confidentiality	b) Integrity	c) Authenticity	d) Availability	c	
11	Data _____ is used to ensure confidentiality.		a) Encryption	b) Locking	c) Decryption	d) Backup	a	
12	What does OSI stand for in the OSI Security Architecture?		a) Open System Interface	Interconnections	c) Open Source Initiative	Interconnections	b	
13	A company requires its users to change passwords every month. This improves the _____ of the network.		a) Performance	b) Reliability	c) Security	d) None of the above	c	
14	Release of message contents and Traffic analysis are two types of _____ attacks.		a) Active Attack	b) Modification of Attack	c) Passive attack	d) DoS Attack	c	
15	The _____ is encrypted text.		a) Cipher script	b) Cipher text	c) Secret text	d) Secret script	b	
16	What type of attack uses a fraudulent server with a relay address?		NTLM	MITM	NetBIOS	SMB	b	
17	Which of the following Algorithms not belong to symmetric encryption		3DES (TripleDES)	RSA	RC5	IDEA	b	
18	Which is the largest disadvantage of the symmetric Encryption?			More complex and therefo	Problem of the secur	Less secure encryption functi	Isn't used any more.	b
19	In cryptography, what is cipher?							
20	In asymmetric key cryptography, the private key is kept by _____		algorithm for performing ei	encrypted message	both algorithm for performing decrypted message		a	
21	Which one of the following algorithm is not used in asymmetric-key cryptography?		sender	receiver	sender and receiver		b	
22	In cryptography, the order of the letters in a message is rearranged by _____		rsa algorithm	diffie-hellman algorit	electronic code book algorith	dsa algorithm	c	
23	What is data encryption standard (DES)?		transpositional ciphers	substitution ciphers	both transpositional ciphers	a quadratic ciphers	a	
24	A asymmetric-key (or public key ) cipher uses		block cipher	stream cipher	bit cipher	byte cipher	a	
25	In asymmetric key cryptography, the two keys e and d, have special relationship to _____		1 key	2 key	3 key	4 key	b	
26	_____ is the process or mechanism used for converting ordinary plain text into garbled non-human readable text & vice-versa.		others	data	keys	each other	d	
27	_____ is a means of storing & transmitting information in a specific format so that only those for whom it is planned can understand or process it.		Malware Analysis	Exploit writing	Reverse engineering	Cryptography	d	
28	4. Cryptographic algorithms are based on mathematical algorithms where these algorithms use _____ for a secure transformation of data.		Malware Analysis	Cryptography	Reverse engineering	Exploit writing	b	
29	Conventional cryptography is also known as _____ or symmetric-key encryption.		secret key	external programs	add-ons	secondary key	a	
30	The procedure to add bits to the last block is termed as _____		secret-key	public key	protected key	primary key	a	
31	How many rounds does the AES-192 perform?		decryption	hashing	tuning	padding	d	
32	ECC encryption system is _____		10	12	14	16	b	
33	_____ function creates a message digest out of a message.		symmetric key encryption algorithm	asymmetric key encr	not an encryption algorithm	block cipher method	b	
			encryption	decryption	hash	none of the above	c	

34	Extensions to the X.509 certificates were added in version _____						
35	A digital signature needs _____ system						
36	"Elliptic curve cryptography follows the associative property."						
37	ECC stands for						
38	When a hash function is used to provide message authentication, the hash function value is referred to as						
39	Message authentication code is also known as						
40	The main difference in MACs and digital signatures is that, in digital signatures the hash value of the message is encrypted with a user's public key.						
41	The DSS signature uses which hash algorithm?						
42	What is the size of the RSA signature hash after the MD5 and SHA-1 processing?						
43	In the handshake protocol which is the message type first sent between client and server ?						
44	One commonly used public-key cryptography method is the _____ algorithm.						
45	he _____ method provides a one-time session key for two parties.						
46	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.						
47	In the handshake protocol which is the message type first sent between client and server ?						
48	1. VPN is abbreviated as _____						
49	_____ provides an isolated tunnel across a public network for sending and receiving data privately as if the computing devices were directly connected to the private network.						
50	Which of the statements are not true to classify VPN systems?						
51	What types of protocols are used in VPNs?						
52	VPNs uses encryption techniques to maintain security and privacy while communicating remotely via public network.						
53	There are _____ types of VPNs.						
54	_____ type of VPNs are used for home private and secure connectivity.						
55	Which types of VPNs are used for corporate connectivity across companies residing in different geographical location?						
56	Site-to-Site VPN architecture is also known as _____						
57	There are _____ types of VPN protocols.						
58	IPSec is designed to provide security at the _____						
59	In tunnel mode, IPSec protects the _____						
60	Pretty good privacy (PGP) is used in _____						
61	PGP encrypts data by using a block cipher called _____						
62	IKE creates SAs for _____.						
63	_____ provides either authentication or encryption, or both, for packets at the IP level.						
64	A _____ network is used inside an organization.						
65	SSL provides _____.						
66	IKE uses _____						
67	In _____, there is a single path from the fully trusted authority to any certificate.						

68	A _____ provides privacy for LANs that must communicate through the global Internet.	VPP	VNP	VNN	VPN	d
69	_____ uses the idea of certificate trust levels.	X509	PGP	KDC	none of the above	b
70	_____ provides privacy, integrity, and authentication in e-mail.	IPSec	SSL	PGP	none of the above	c
71	In _____, there can be multiple paths from fully or partially trusted authorities.	X509	PGP	KDC	none of the above	b
72	_____ provides authentication at the IP level.	AH	ESP	PGP	SSL	a
73	In _____, the cryptographic algorithms and secrets are sent with the message.	IPSec	SSL	TLS	PGP	d
74	_____ was invented by Phil Zimmerman.	IPSec	SSL	PGP	none of the above	c
75	ISAKMP stands for _____	Internet system	Association and Key Management	Interchange System And Key	Internet Security	
76	PGP makes use of which cryptographic algorithm?	Association and Key Management Packet	Protocol	Modeling Protocol	Modeling Protocol	b
77	What is the key size allowed in PGP?	DES	AES	RSA	Rabin	c
78	In SSL, what is used for authenticating a message?	1024-1056	1024-4056	1024-4096	1024-2048	c
79	S/MIME is abbreviated as _____	MAC (Message Access Code)	MAC (Message Authentication Code)	MAC (Machine Authentication Code)	MAC (Machine Access Code)	b
80	Security Measures Needed to protect _____ during their transmission	file	Data	packet	All of above	b
81	means knowledge obtained from investigation, study , intelligence new ,facts .	Security	Data	Information	None of These	c
82	Prevention of the unauthorised used of Resources refers too?	Data Integrity	Data confidentiality	Acess Control	None of these	c
83	Protection against Denial by one of these parties in a communication refers to?	Non-Repudiation	Data integrity	Authentication	None of these	a
84	Which One of them is Passive attack?	Denial of Service	modify message in transit	Replay previous message	obtain message contain	d
85	What is lying of IP address called as?	IP Spoofing	IP Scamming	IP Lying	None Of theses	a
86	What is full form of DDoS?	Derived Denial of service	Distributed Denial of service	Denial of service	None of these	b
87	A hacker guessing suggested password to a program is call as?	Password Guessing	Dictionary Attack	Default password attack	None of these	c
88	Symmetric key encryption is also called as?	public key Encryption	Private Key Encryption	Both of these	None of these	b
89	Conversion of Cypher text to plain text?	Encryption	Decryption	Simple text	none of these	b
90	_____ is used to create the organisation's overall security program.	program policy	purpose	security	none of these	a
91	An act of protecting information from unauthorised disclouser to an entity.-	intergrity	avability	confidentiality	none of these	c
92	A way to ensure that the entity is indeed what it claims to be.-	Authentication	Accountability	identification	security	a
93	The _____ model is 7 layer architecture where each layer is having some specific functionality to perform.	TCP	OSI	OIS	none of these	b
94	The full form of OSI is OSI model_____.	open systems interconnection	open software interconnection	open connection	open system internet	a
95	The technique in which when one character is replaced by another Character is called as?	Transposition	Substitution	Combinational	None of these	b
96	Conversion of plain text into Cipher text is called as _____.	Encryption	Decryption	Hidden Text	none of above	a
97	In Symmetric schemes requires both parties to share how many secret key?	one	two	three	four	a
98	Blum Blum Shub Generator is based on which Algorithm?	Private key	Public key	both a & b	none of these	b
99	In DES step both LPT and RPT undergoes in how much key Rounds?	8	16	32	64	b
100	What is the 4th step in DES Algorithm?	key transformation	S-box Substitution	P-box Permutation	Expansion permutation	c
101	In AES in which Round Subkeys are Generated from Original key for each round?	Key Expansion	Initial Round	Finale Round	none of these	a
102	AES stands for?	Authorized Encryption Standard	Advance Encryption Standard	Advance Encryption Strategy	none of these	b
103	Which of them is type of Cipher?	Stream Cipher	Block Cipher	both of Them	none of these	c

104	The message which is not understandable is called as?		Cipher Text	plain text	Hidden text	both a & c	a
105	The ___ is a polygraphic substitution cipher based on linear algebra.		Hill cipher	playfair cipher	Affine cipher	none of these	a
106	___ is the practice of concealing a message within another message,image or file.		steganography	cryptography	cipher	receiver	a
107	In asymmetric key cryptography, the private key is kept by _____		sender	receiver	sender and receiver	none of these	b
108	What is data encryption standard (DES)?		block cipher	stream cipher	bit cipher	byte cipher	a
109	In cryptography the original message before being transform is called		simple text	plain text	empty text	filled text	b
110	An asymmetric-key (or public-key) cipher uses		1 key	2 key	3 key	4 key	a
111	In Asymmetric-Key Cryptography, although RSA can be used to encrypt and decrypt actual messages, it is very slow if the message is		Short	Flat	Long	Thin	c
112	The man-in-the-middle attack can endanger the security of the Diffie-Hellman method if two parties are not		Authenticated	Joined	Submit	Separate	a
113	In Asymmetric-Key Cryptography, the two keys, e and d, have a special relationship to		other	Data	Keys	Each other	d
114	For RSA to work, the value of P must be less than the value of		p	q	n	r	c
115	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.		(p)/(q)	(p)(q)	(p-1)(q-1)	(p+1)(q+1)	c
116	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .		TRUE	FALSE			b
117	RSA is also a stream cipher like Merkle-Hellman.		TRUE	FALSE			a
118	USENET falls under which category of public key sharing?		public announcement	publicly available directory	public key authority	public key certificate	a
119	PGP makes use of which cryptographic algorithm?		RSA	AES	DES	ROBIN	a
120	Public key cryptography also called as _____		Asymmetric key cryptography	Symmetric key cryptography	Both a and b	None of the above	a
121	ECC stands for		Elliptic Curve Cryptography	Elliptic Cryptography Curve	Error Correcting Code	None of the above	a
122	Diffie-Hellman algorithm is widely known as _____		Key exchange algorithm	key agreement algorithm	only a	Both a and b	d
123	Hash function is used for _____		Message authentication	Digital Signature	Both a and b	only a	c
124	RSA algorithm is best example of _____		Asymmetric key cryptography	Symmetric key cryptography	Elliptic Curve Cryptography	All of the above	a
125	IPSec is designed to provide security at the _____		Transport layer	Network layer	Application layer	Session layer	b
126	In tunnel mode, IPSec protects the _____		Entire IP packet	IP header	IP payload	IP trailer	a
127	HTTPS is abbreviated as _____		Hypertext Transfer Protocol Secured	Secured Hyper Text Transfer Protocol	Hyperlinked Text Transfer Protocol Secured	Hyper Text Transfer Protocol Secure	d
128	An attempt to make a computer resource unavailable to its intended users is called _____		Denial-of-service attack	Virus attack	Worms attack	Botnet process	a
129	SSL primarily focuses on _____		integrity and authenticity	integrity and non-repudiation	authenticity and privacy	confidentiality and integrity	a
130	Pretty good privacy (PGP) is used in _____		Browser security	Email security	WiFi security	FTP security	b
131	_____ is used for encrypting data at network level		IPSec	HTTPS	SMTP	S/MIME	a
132	WPA2 is used for security in _____		Ethernet	Wi-Fi	Bluetooth	E-mail	b
133	Which of the following is not a strong security protocol		SSL	HTTP	SMTP	SFTP	c
134	TSL (Transport Layer Security) is a cryptographic protocol used for securing HTTP/HTTPS based connection.		TRUE	FALSE			a
135	IPSec operates in..... different modes		3	2	4	5	b
136	length of the IPv4 address is ....		32 bits	64 bits	16 bits	128 bit	a
137	Internet Key Exchange has .... phases and modes of operations		4	3	2	5	c
138	PGP is abbreviated as		Pretty Good Privacy	Pretty Good Policy	Policy Good Privacy	Pretty Good Protection	a
139	SET stands for		Set Electronic Transaction	Secure Electronic Transaction	Simple Electronic Transaction	none of the above	b
140	Transport layer Protocol consists of ... main components		2	1	3	4	a
141	length of the IPv6 address is ....		32 bits	64 bits	16 bits	128 bit	b

142	SSL provides _____.		message integrity	confidentiality	compression	all of the above	d
143	IPSec provides ....protocols for network layer		7	3	1	4	a
144	length of the IPv6 header is....	64 bits	16 bits	32 bits	8 bits		c

1.	<p>Asymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?</p> <ol style="list-style-type: none"> <li>1. Not true, the message can also be decrypted with the Public Key.</li> <li>1. 2. A so called "one way function with back door" is applied for the encryption.</li> <li>2. The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.</li> <li>3. 4. The encrypted message contains the function for decryption which identifies the Private Key.</li> </ol>	2
2.	<p>In which way does the Combined Encryption combine symmetric and asymmetric encryption?</p> <ol style="list-style-type: none"> <li>1. First, the message is encrypted with symmetric encryption and afterwards it is encrypted asymmetrically together with the key.</li> <li>2. The secret key is symmetrically transmitted, the message itself asymmetrically.</li> <li>3. First, the message is encrypted with asymmetric encryption and afterwards it is encrypted symmetrically together with the key.</li> <li>4. The secret key is asymmetrically transmitted, the message itself symmetrically.</li> </ol>	4
3.	<p>Which is the largest disadvantage of the symmetric Encryption?</p> <ol style="list-style-type: none"> <li>1. More complex and therefore more time-consuming calculations.</li> <li>2. Problem of the secure transmission of the Secret Key.</li> <li>3. Less secure encryption function.</li> <li>4. Isn't used any more.</li> </ol>	2
4.	<p>Which is the principle of the encryption using a key?</p> <ol style="list-style-type: none"> <li>1. The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.</li> <li>2. The key contains the secret function for encryption including parameters. Only a password can activate the key.</li> <li>3. All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.</li> <li>4. The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.</li> </ol>	3
5.	<p>A substitution cipher substitutes one symbol with</p> <ol style="list-style-type: none"> <li>1. Keys</li> <li>2. Others</li> <li>3. Multi Parties</li> <li>4. Single Party</li> </ol>	2

6.	An asymmetric-key (or public-key) cipher uses  1. 1 Key 2. 2 Key 3. 3 Key 4. 4 Key	2
7.	A straight permutation cipher or a straight P-box has the same number of inputs as  1. cipher 2. Frames 3. Outputs 4. Bits	3
8.	We use Cryptography term to transforming messages to make them secure and immune to  1. Change 2. Idle 3. Attacks 4. Defend	3
9.	The man-in-the-middle attack can endanger the security of the Diffie-Hellman method if two parties are not  1. Authenticated 2. Joined 3. Submit 4. Separate	1
10.	The cryptography algorithms (ciphers) are divided into  1. two groups 2. four groups 3. one single group 4. None	1
11.	The shift cipheris sometimes referred to as the  1. Caesar cipher 2. Julia cipher 3. plain cipher 4. All of them	1

12.	<p>One commonly used public-key cryptography method is the _____ algorithm.</p> <ol style="list-style-type: none"> <li>1. RSS</li> <li>2. RAS</li> <li>3. RSA</li> <li>4. RAA</li> </ol>	3
13.	<p>A(n) _____ algorithm transforms cipher text to plaintext.</p> <ol style="list-style-type: none"> <li>1. encryption</li> <li>2. decryption</li> <li>3. either (a) or (b)</li> <li>4. neither (a) nor (b)</li> </ol>	2
14.	<p>The _____ method provides a one-time session key for two parties.</p> <ol style="list-style-type: none"> <li>1. Diffie-Hellman</li> <li>2. RSA</li> <li>3. DES</li> <li>4. AES</li> </ol>	1
15.	<p>A(n) _____ is a keyless substitution cipher with N inputs and M outputs that uses a formula to define the relationship between the input stream and the output stream.</p> <ol style="list-style-type: none"> <li>1. S-box</li> <li>2. P-box</li> <li>3. T-box</li> <li>4. none of the above</li> </ol>	1
16.	<p>A _____ cipher replaces one character with another character.</p> <ol style="list-style-type: none"> <li>1. substitution</li> <li>2. transposition</li> <li>3. either (a) or (b)</li> <li>4. neither (a) nor (b)</li> </ol>	1
17.	<p>The _____ cipher reorders the plaintext characters to create a ciphertext.</p> <ol style="list-style-type: none"> <li>1. substitution</li> <li>2. transposition</li> <li>3. either (a) or (b)</li> <li>4. neither (a) nor (b)</li> </ol>	2

18.	<p>_____ is a round cipher based on the Rijndael algorithm that uses a 128-bit block of data.</p> <ol style="list-style-type: none"> <li>1. AEE</li> <li>2. AED</li> <li>3. AER</li> <li>4. AES</li> </ol>	4
19.	<p>The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.</p> <ol style="list-style-type: none"> <li>1. man-in-the-middle</li> <li>2. ciphertext attack</li> <li>3. plaintext attack</li> <li>4. none of the above</li> </ol>	1
20.	<p>A combination of an encryption algorithm and a decryption algorithm is called a _____.</p> <ol style="list-style-type: none"> <li>1. cipher</li> <li>2. secret</li> <li>3. key</li> <li>4. none of the above</li> </ol>	1
21.	<p>AES has _____ different configurations.</p> <ol style="list-style-type: none"> <li>1. two</li> <li>2. three</li> <li>3. four</li> <li>4. five</li> </ol>	3
22.	<p>DES is a(n) _____ method adopted by the U.S. government.</p> <ol style="list-style-type: none"> <li>1. symmetric-key</li> <li>2. asymmetric-key</li> <li>3. either (a) or (b)</li> <li>4. neither (a) nor (b)</li> </ol>	1
23.	<p>DES uses a key generator to generate sixteen _____ round keys.</p> <p>A) 32-bit</p> <p>B) 48-bit</p> <p>C) 54-bit</p> <p>D) 42-bit</p>	2

24.	The Caesar cipher is a _____ cipher that has a key of 3.  1. transposition 2. additive 3. shift 4. none of the above	3
25.	ECB and CBC are _____ ciphers.  1. block 2. stream 3. field 4. none of the above	1
26.	A(n) _____ is a keyless transposition cipher with N inputs and M outputs that uses a table to define the relationship between the input stream and the output stream.  1. S-box 2. P-box 3. T-box 4. none of the above	2
27.	_____ DES was designed to increase the size of the DES key.  1. Double 2. Triple 3. Quadruple 4. none of the above	2
28.	DES has an initial and final permutation block and _____ rounds.  1. 14 2. 15 3. 16 4. none of the above	3
29.	The DES function has _____ components.  A) 2 B) 3 C) 4 D) 5	3

30.	In a(n) _____ cipher, the same key is used by both the sender and receiver.  1. symmetric-key 2. asymmetric-key 3. either (a) or (b) 4. neither (a) nor (b)	1
31.	The _____ cipher is the simplest monoalphabetic cipher. It uses modular arithmetic with a modulus of 26.  1. transposition 2. additive 3. shift 4. none of the above	3
32.	In a(n) _____, the key is called the secret key.  1. symmetric-key 2. asymmetric-key 3. either (a) or (b) 4. neither (a) nor (b)	1
33.	RSA stands for:  1. Rivest Shamirand Adleman 2. Rock Shane and Amozen 3. Rivest Shane and Amozen 4. Rock Shamir and Adleman	1
34.	The S-Box is used to provide confusion, as it is dependent on the unknown key. 1. True 2. False	1
35.	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits. 1. True 2. False	2
36.	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits. 1. 48, 32 2. 64,32 3. 56, 24 4. 32, 32	1

37.	<p>In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____</p> <ol style="list-style-type: none"> <li>1. Scaling of the existing bits</li> <li>2. Duplication of the existing bits</li> <li>3. Addition of zeros</li> <li>4. Addition of ones</li> </ol>	1
38.	<p>The Initial Permutation table/matrix is of size</p> <ol style="list-style-type: none"> <li>1. <math>16 \times 8</math></li> <li>2. <math>12 \times 8</math></li> <li>3. <math>8 \times 8</math></li> <li>4. <math>4 \times 8</math></li> </ol>	3
39.	<p>In the DES algorithm the 64 bit key input is shortened to 56 bits by ignoring every 4th bit.</p> <ol style="list-style-type: none"> <li>1. True</li> <li>2. False</li> </ol>	2
40.	<p>AES uses a _____ bit block size and a key size of _____ bits.</p> <ol style="list-style-type: none"> <li>1. 128; 128 or 256</li> <li>2. 64; 128 or 192</li> <li>3. 256; 128, 192, or 256</li> <li>4. 128; 128, 192, or 256</li> </ol>	4
41.	<p>SHA-1 produces a hash value of</p> <ol style="list-style-type: none"> <li>1. 256 bits</li> <li>2. 160 bits</li> <li>3. 180 bits</li> <li>4. 128 bits</li> </ol>	2
42.	<p>The big-endian format is one in which</p> <ol style="list-style-type: none"> <li>1. the least significant byte is stored in the low-address byte position</li> <li>2. the least significant byte is stored in the high-address byte position</li> <li>3. the most significant byte is stored in the high-address byte position</li> <li>4. the most significant byte is stored in the low-address byte position</li> </ol>	4
43.	<p>Caesar Cipher is an example of</p> <ol style="list-style-type: none"> <li>1 Poly-alphabetic Cipher</li> <li>2 Mono-alphabetic Cipher</li> <li>3 Multi-alphabetic Cipher</li> <li>4 Bi-alphabetic Cipher</li> </ol>	2

44.	<p>DES using 56 bits</p> <ol style="list-style-type: none"> <li>1. Cannot be broken in given time using presently available computers.</li> <li>2. Can be broken only if algorithm is known using even slow computers.</li> <li>3. Can be broken by presently available high speed computers.</li> <li>4. It is impossible to break.</li> </ol>	3
45.	<p>Triple DES</p> <ol style="list-style-type: none"> <li>1. Cannot be broken in given time using presently available computers.</li> <li>2. Can be broken only if algorithm is known using even slow computers.</li> <li>3. Can be broken by presently available high speed computers.</li> <li>4. It is impossible to break.</li> </ol>	1
46.	<p>The Acronym DES stands for</p> <ol style="list-style-type: none"> <li>1. Digital Evaluation System.</li> <li>2. Digital Encryption System.</li> <li>3. Digital Encryption Standard.</li> <li>4. Double Encryption System.</li> </ol>	2
47.	<p>The Acronym AES stands for</p> <ol style="list-style-type: none"> <li>1. Advanced Encryption Standard</li> <li>2. Advanced Encryption System.</li> <li>3. Advanced Evaluation System.</li> <li>4. Advanced Evaluation Standard</li> </ol>	1
48.	<p>Triple DES</p> <ol style="list-style-type: none"> <li>1. Is a Symmetric Key Encryption method.</li> <li>2. Guarantees Excellent Security</li> <li>3. Is implementable as hardware VLSI chip.</li> <li>4. Is a public key encryption method</li> </ol>	2





### Assignment No :- 02

Q. 1] Enlist different encryption methods with suitable example.



There are two types of encryption :-

- ① Symmetric key encryption.
- ② Asymmetric key encryption.

symmetric key encryption :-

- ① Symmetric key encryption is also called as symmetric key cryptography.
- ② In symmetric key cryptography single key is used for encryption and decryption.
- ③ Symmetric key cryptography is also called as secret key cryptography or private key cryptography.
- ④ Mathematically, it is represented as

$$P = D(K, E(P))$$

where  $K$  is encryption and decryption key.

$P$  = plain text.

$D$  = Decryption.

$E(P)$  = Encryption of plain text.



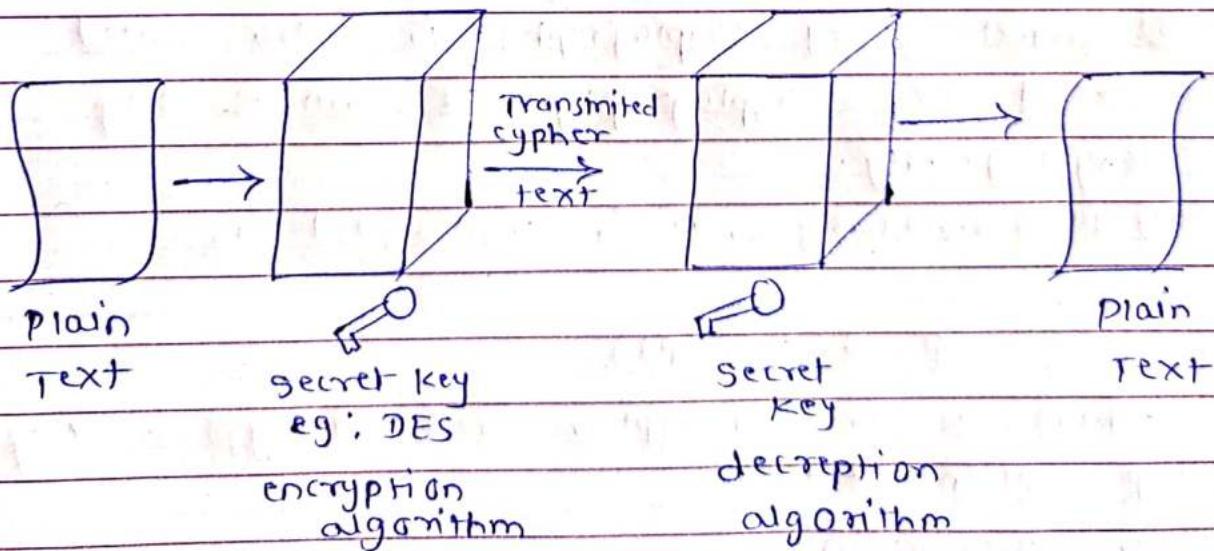
⑤ Symmetric key is faster than asymmetric key cryptography.

⑥ For encryption of large message symmetric key cryptography still play an important role.

⑦ Symmetric key cryptography utilizes less resource as compare to asymmetric key cryptography.

For example :-

Stream and block cipher, data encryption standard (DES), Advance encryption standard (AES) and BLOWFISH.





## Asymmetric key cryptography :-

- ① In asymmetric key cryptography two keys are used, one for encryption and one for decryption.
- ② Asymmetric key encryption is also called as public key cryptography or conventional encryption system.
- ③ Mathematically, it is represented as  
$$P = D(K_d, E(K_e, P))$$
where  $K_e$  and  $K_d$  are encryption and decryption key.  
 $D$  = Decryption  
 $E(K_e, P)$  = encryption of plain text using private key  $K_e$ .
- ④ Because of two different key, used asymmetric key is slower than asymmetric key cryptography.
- ⑤ In asymmetric key cryptography plain text and cipher text treated as integer number.
- ⑥ Asymmetric key cryptography utilizes more resource as compare to asymmetric key.



## Cryptography.

Eg:- Rivest Shamir Adman (RSA) and Diffie Hellman key exchange algorithm.

Q.2. Calculate cipher text using RSA algorithm given data as follows prime number  $P, q$  as 7, 17 respectively and plain text message is to be send is 10.

Calculate cipher text using RSA algorithm given data as follows.



$$\text{Step 1: } a = 7, b = 17$$

$$\text{Step 2: } n = a * b = 7 * 17 = 119$$

$$\begin{aligned}\text{Step 3: } \varphi(n) &= (a-1) * (b-1) \\ &= (7-1) * (17-1) \\ &= 96\end{aligned}$$

Step 4:- Select  $e$  such that it is relatively prime to  $\varphi(n)$  i.e.

$$\gcd(e, \varphi(n)) = 1$$



$$3 = 1 * 3$$

$$96 = 2 * 2 * 2 * 2 * 2 * 3$$

gcd must be 1.

we select  $\alpha$  as 5 (gcd must be 1)

$$5 = 1 * 5$$

$$\text{gcd}(5, 96) = 1$$

Step 5: - calculate  $\alpha$ , such that

$$\alpha = e^{-1} \bmod \phi(n)$$

$$e\alpha \bmod \phi(n) = 1$$

$$5 * \alpha \bmod 96 = 1$$

using RSA algorithm:

$$\therefore \alpha = \left( \frac{(\phi(n)) * i + 1}{5} \right)$$

$$\text{where } i=1 \rightarrow g = \frac{(96 * i) + 1}{5} = 19 \cdot 4$$

$$= \frac{(96 * 1) + 1}{5}$$

$\alpha$  must be completely divisible by 'e'.

$$= \frac{(96 * 2) + 1}{5} = 38 \cdot 6 = \frac{(96 * 3) + 1}{5} = 57 \cdot 08$$



$$= \frac{(96 * 4) + 1}{5} = 77$$

$$\alpha = 77$$

Step 6 :- public key =  $\{e, n\} = \{5, 119\}$

private key =  $\{d, n\} = \{77, 119\}$

Step 7 :- calculate cipher text message for given plain text message  $m = 10$ .

plain text denoted as  $p = 10$  (m denoted as p)

$$c = p^e \bmod n = 10^5 \bmod 119$$

It can be represented as

$$10^5 \bmod 119 = [10^3 \bmod 119] * [10^2 \bmod 119] \bmod 119$$

$$= [1000 \bmod 119] * [100 \bmod 119] \bmod 119$$

$$= 100000 \bmod 119$$

$$c = 40$$

Step 8 :- calculate plain text P required at the time of decryption once sender sends 40



to receiver then receiver can calculate plain text  $P$ .

$$P = C^d \bmod n = 40^{77} \bmod 119$$

Represent  $40^{77} \bmod 119$  as mention.

Because decryption process always yields original message / plaintext.

$$\therefore P = 40^{77} \bmod 119 = 10$$

$$\boxed{P = 10}$$

1	<p>A practice of choosing a key that is extremely random and the algorithm should use the full range of the key+space is called _____</p> <p>a. Cipher management b.Key combination c.Key management d.none of above</p>	c
2	<p>Public key cryptography is also called as _____</p> <p>a.Asymmetric key Cryptography b.Symmetric Key Cryptography c.Hash key d.None of above</p>	a
3	<p>RSA algorithm is the best example of _____</p> <p>a.Asymmetric key Cryptography b.Symmetric Key Cryptography c.Hash key Cryptography d.None of above</p>	a
4	<p>For RSA to work the value of P must be less than</p> <p>a. p b. q c. n d. r</p>	c
5	<p>In symmetric key cryptography, key used by sender and receiver is</p> <p>a. shared b. different c. two keys are used d. none</p>	a
6	<p>RSA stands for:</p> <p>a. Rivest Shamir Aldeman b. Rock Shane and Amozen c. Rivest Shane and Amozen d. Rock Shamir and Adleman</p>	a
7	<p>Which of the following is also known as key exchange algorithm?</p> <p>a. RSA. b. DES. c. DH. d. ECC.</p>	c

8	<p>In which of the following algorithm MiM attack occurs?</p> <ul style="list-style-type: none"> <li>a. DES.</li> <li>b. Triple DES.</li> <li>c. DH.</li> <li>d. RSA.</li> </ul>	c
9	<p>In MD5 Message Digest Algorithm takes an input of arbitrary length and _____ message digest is produced.</p> <ul style="list-style-type: none"> <li>a. 64 bits</li> <li>b. 128 bits</li> <li>c. 160 bits</li> <li>d. 256 bits</li> </ul>	b
10	<p>The input message in MD5 algorithm is produced in _____</p> <ul style="list-style-type: none"> <li>a. 128 bit blocks</li> <li>b. 256 bit blocks</li> <li>c. 64 bit blocks</li> <li>d. 512 bit blocks</li> </ul>	d
11	<p>SHA-1 produces an output of _____ message digest</p> <ul style="list-style-type: none"> <li>a. 64 bits</li> <li>b. 128 bits</li> <li>c. 160 bits</li> <li>d. 256 bits</li> </ul>	c
12	<p>The man-in-the-middle attack can endanger the security of the Diffie Hellman method if two parties are not</p> <ul style="list-style-type: none"> <li>a. Authenticated</li> <li>b. Joined</li> <li>c. Submit</li> <li>d. Separate</li> </ul>	a
13	<p>Function provided by key storage</p> <ul style="list-style-type: none"> <li>a. Operational Storage</li> <li>b. Backup Storage</li> <li>c. Archive Storage</li> <li>d. All of above</li> </ul>	d
14	<p>ECC stands for</p> <ul style="list-style-type: none"> <li>a. Elliptic Curve Cryptography</li> <li>b. Euler Curve Cryptography</li> <li>c. Euclidean Curve Cryptography</li> <li>d. Eclipse Curve Cryptography</li> </ul>	a

15	<p>Size of key used in ECC is</p> <ul style="list-style-type: none"> <li>a. 256 bits</li> <li>b. 128 bits</li> <li>c. 512 bits</li> <li>d. 160 bits</li> </ul>	d
16	<p>In which attack original data gets modified and new malicious code is retransmitted again and again to receiver</p> <ul style="list-style-type: none"> <li>a. Masquerade Attack</li> <li>b. Replay attack (Rewrite)</li> <li>c. Non Repudiation</li> <li>d. Traffic Analysis</li> </ul>	b
17	<p>Which of the following is not a Authentication method</p> <ul style="list-style-type: none"> <li>a. Hash function</li> <li>b. Message encryption</li> <li>c. Message Authentication Code (MAC)</li> <li>d. Key Generation</li> </ul>	d
18	<p>Which algorithm uses big-endian method to represent the message</p> <ul style="list-style-type: none"> <li>a. SHA-1</li> <li>b. MD5</li> <li>c. Both a and b</li> <li>d. None of above</li> </ul>	a
19	<p>Which algorithm uses little-endian method to represent the message</p> <ul style="list-style-type: none"> <li>a. SHA-1</li> <li>b. MD5</li> <li>c. Both a and b</li> <li>d. None of above</li> </ul>	b
20	<p>SHA has how many rounds</p> <ul style="list-style-type: none"> <li>a. 64</li> <li>b. 4</li> <li>c. 20</li> <li>d. 10</li> </ul>	c
21	<p>What is used instead of passwords during login session and then can be used in any Kerberos services</p> <ul style="list-style-type: none"> <li>a. Key</li> <li>b. Tickets</li> <li>c. Header</li> <li>d. Certificate</li> </ul>	b

22	What will be the value of n according to RSA algorithm if the two prime number a and b are given has 3 and 5  a. 8 b. 15 c. 2 d. 3	b
23	The attack which in which Hacker tries all possible private keys is known as  a. Brute force attack b. Mathematical attacks c. Timing attacks d. Chosen Cipher text attack	a
24	The attack which in which Hacker tries to attack on the properties of RSA algorithm is known as  a. Brute force attack b. Mathematical attacks c. Timing attacks d. Chosen Cipher text attack	d
25	For given parameters P = 3 ,Q = 19 , e=7,d=31 using RSA algorithm encrypt message M = 6 find the value of Cipher text (C)  a. 3 b. 15 c. 9 d. 12	c
26.	In public key cryptosystem _____ keys are used for encryption and decryption. 1) Same 2) Different 3) Encryption Keys 4) None of the mentioned	2
27.	Private key algorithm is used for _____ encryption and public key algorithm is used for _____ encryption. 1) Messages, session key 2) Session key, messages 3) Can be used for both 4) None of the mentioned	1

28.	Which has a key length of 128 bits? 1) IDEA 2) Triple-DES 3) IDEA & Triple-DES 4) None of the mentioned	1
29.	Which algorithm can be used to sign a message? 1) Public key algorithm 2) Private key algorithm 3) Public & Private key algorithm 4) None of the mentioned	1
30.	Examples of hash functions are 1) MD5 2) SHA-1 3) MD5 & SHA-1 4) None of the mentioned	3
31.	Encryption transformations are known as 1) Diffusion 2) Confusion 3) Diffusion & Confusion 4) None of the mentioned	3
32.	In transposition, the plaintext letters are 1) Substituted 2) Rearranged 3) Removed 4) None of the mentioned	2
33.	RSA is also a stream cipher like Merkle-Hellman. 1) True 2) False	1
34.	In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'? 1) p and q should be divisible by $\Phi(n)$ 2) p and q should be co-prime 3) p and q should be prime 4) p/q should give no remainder	3
35.	For p = 11 and q = 19 and choose e=17. Apply RSA algorithm where message=5 and find the cipher text. 1) C=80 2) C=92 3) C=56 4) C=23	1

36.	For $p = 11$ and $q = 19$ and choose $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text. 1) 54 2) 43 3) 5 4) 24	3
37.	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where PT message=88 and thus find the CT. 1) 23 2) 64 3) 11 4) 54	3
38.	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where Cipher message=11 and thus find the plain text. 1) 88 2) 122 3) 143 4) 111	1
39.	The _____ method provides a one-time session key for two parties. 1) Diffie-Hellman 2) RSA 3) DES 4) AES	1
40.	Which one of the following algorithm is not used in asymmetric-key cryptography? 1.) RSA algorithm 2.) diffie-hellman algorithm 3.) electronic code book algorithm 4.) none of these	3
41.	When a hash function is used to provide message authentication, the hash function value is referred to as 1) Message Field 2) Message Digest 3) Message Score 4) Message Leap	2

42.	Message authentication code is also known as 1) key code 2) hash code 3) keyed hash function 4) message key hash function	3
43.	What is the number of round computation steps in the SHA-256 algorithm? 1) 80 2) 76 3) 64 4) 70	3
44.	In SHA-512, the message is divided into blocks of size _____ bits for the hash computation. a) 1024 b) 512 c) 256 d) 1248	1
45.	The message in SHA-512 is padded so that it's length is 1) 832 mod 1024 2) 768 mod 1024 3) 960 mod 1024 4) 896 mod 1024	4
46.	Which one of the following is not an application hash functions? 1) One-way password file 2) Key wrapping 3) Virus Detection 4) Intrusion detection	2
47.	The main difference in MACs and digital signatures is that, in digital signatures the hash value of the message is encrypted with a user's public key. 1) True 2) False	2
48.	Hashed message is signed by sender using 1) His public Key 2) His private Key 3) Receivers public Key 4) Receivers private key	1
49.	The responsibility of certification authority for digital signature is to authenticate the 1) hash function used 2) private key of subscribers 3) public key of subscribers 4) key used in DES	3

50.	Encryption can be done 1) On any textual data 2) only on ASCII coded data 3) on any bit of string 4) only on mnemonic data	3
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Collection of protocol designed by IETF
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Operation in Tunnel mode
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects information in
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec in which mode does not protect IP header
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which mode is used when we need host to host protection
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects the whole IP packets
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec defines two protocol
((OPTION_A)) THIS IS MANDATORY OPTION	AH, SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP, ASP
((OPTION_C)) This is optional	AH, ESP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Authentication at the IP header
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES AUTHENTICATION OR ENCRYPTION OR BOTH FOR PACKET AT IP LEVEL
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ESP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSEC USES A SET OF SA CALLED
((OPTION_A)) THIS IS MANDATORY OPTION	SAD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SAB
((OPTION_C)) This is optional	SADB
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol to provide security for inbound and outbound
((OPTION_A)) THIS IS MANDATORY OPTION	SA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CA
((OPTION_C)) This is optional	KDC
((OPTION_D)) This is optional	IKE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE creates SA for
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP
((OPTION_C)) This is optional	IPSec
((OPTION_D)) This is optional	VP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE based on other how many protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Two
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Three
((OPTION_C)) This is optional	Four
((OPTION_D)) This is optional	five
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE uses
((OPTION_A)) THIS IS MANDATORY OPTION	OAKLEY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SKEME
((OPTION_C)) This is optional	ISKAMP
((OPTION_D)) This is optional	ALL ABOVE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network is used in an organization
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Semi private
((OPTION_D)) This is optional	Semi publik
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Private network that uses an internet model
((OPTION_A)) THIS IS MANDATORY OPTION	intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a network that allows authorized access from outside
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Internet authorities have reserved address for
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is provides privacy for LAN
((OPTION_A)) THIS IS MANDATORY OPTION	VPP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	VNP
((OPTION_C)) This is optional	VNN
((OPTION_D)) This is optional	VPN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES END TO END SECURITY FOR APPLICATION
((OPTION_A)) THIS IS MANDATORY OPTION	DATA LINK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NETWORK
((OPTION_C)) This is optional	TRANSPORT
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is actually an IETF version on
((OPTION_A)) THIS IS MANDATORY OPTION	TLS, TSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL. TLS
((OPTION_C)) This is optional	TLS, SSL
((OPTION_D)) This is optional	SSL,SLT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security at the transport layer
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To provide security and compression
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Can receive application data from any application layer protocol
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSL provides
((OPTION_A)) THIS IS MANDATORY OPTION	Integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Compression
((OPTION_D)) This is optional	All above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSI session
((OPTION_A)) THIS IS MANDATORY OPTION	List of protocol
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher suit
((OPTION_C)) This is optional	List of keys
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cryptographic algorithem and secrets are sent with the message IN
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	TLS
((OPTION_D)) This is optional	PGP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security protocol for email security is
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Was invented by Phil Zimmerman
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security, integration, authentication in email
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Method to transfer secure message
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cryptoanalysis
((OPTION_C)) This is optional	both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the original message before transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the message after transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms plaintext to ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms cipher text to plain text
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A combination of encryption and decryption algorithm is called
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher operates on
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The same key used by both the sender and receiver
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The key is called as secret key
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A pair of keys used in
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the sender uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the receiver uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A cipher replaces one character with another
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic and polyalphabetic cipher are
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The simplest monoalphabetic cipher is
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Ceasar cipher that has key of 3
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cipher reorders the plain text to create the ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless substitution To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless transposition To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher made of a combination of different simple cipher
((OPTION_A)) THIS IS MANDATORY OPTION	Round
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Circle
((OPTION_C)) This is optional	Square
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is an method
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES has an Round
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES functions has componenets
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES uses a key generaterto generater to generate sixteen ---round key
((OPTION_A)) THIS IS MANDATORY OPTION	32 bit
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	48 bit
((OPTION_C)) This is optional	54 bit
((OPTION_D)) This is optional	42 bit
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES was designed to increase the size of DES key
((OPTION_A)) THIS IS MANDATORY OPTION	Double
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripal
((OPTION_C)) This is optional	Quadrupal
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Algorithm uses a 128 bit block of data
((OPTION_A)) THIS IS MANDATORY OPTION	AEE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AED
((OPTION_C)) This is optional	AER
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES has how many different combinations
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are ciphers
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Field
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptographic algorithm is
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	AC
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	it provides a one time session key for two parties
((OPTION_A)) THIS IS MANDATORY OPTION	Diffie hellman
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is an abbreviation of
((OPTION_A)) THIS IS MANDATORY OPTION	Terminal network
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Telephone network
((OPTION_C)) This is optional	Telecommunication network
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is a client server application program for
((OPTION_A)) THIS IS MANDATORY OPTION	Specific purpose
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	General purpose
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Users logs in to local time sharing system is called
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To access remote machine need a login
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	NVT uses two set of character
((OPTION_A)) THIS IS MANDATORY OPTION	Sending, receiving
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Request, reply
((OPTION_C)) This is optional	Data, control
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The server uses -----port
((OPTION_A)) THIS IS MANDATORY OPTION	Wellknown
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Emperor
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To distinguish data from characters
((OPTION_A)) THIS IS MANDATORY OPTION	ICA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IAC
((OPTION_C)) This is optional	AIC
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	the echoing is done by the client in the mode
((OPTION_A)) THIS IS MANDATORY OPTION	Default
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Character
((OPTION_C)) This is optional	Line
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP uses a service of
((OPTION_A)) THIS IS MANDATORY OPTION	UDP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IP
((OPTION_C)) This is optional	TCP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP control and data connection are
((OPTION_A)) THIS IS MANDATORY OPTION	21, 22
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	20,21
((OPTION_C)) This is optional	21,20
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP is the service type used by IP protocol because
((OPTION_A)) THIS IS MANDATORY OPTION	Maximise throughput
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Minimize delay
((OPTION_C)) This is optional	Minimize error
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For control connection FTP use a character set of
((OPTION_A)) THIS IS MANDATORY OPTION	Regular ASCII
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EBCDIC
((OPTION_C)) This is optional	NVT ASCII
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP files are types of an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structures
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP there are three types of -----,stream, blocked and compression
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structurs
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP and image defines an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File type
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structure
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the server to client
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Retrieve a list
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the client to server
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Store a file
((OPTION_C)) This is optional	Retrieve a file
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a part of a local hard drive, a special file with permission restriction
((OPTION_A)) THIS IS MANDATORY OPTION	A message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A response
((OPTION_C)) This is optional	An agent
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and the receiver on the same system we need
((OPTION_A)) THIS IS MANDATORY OPTION	One UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	One UA and one MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are on the different system, we need
((OPTION_A)) THIS IS MANDATORY OPTION	One MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	Two UA and one pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender is connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pairs of MTA
((OPTION_C)) This is optional	Two UA and a pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two UA, two pair of MTA, a pair of MAA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pair of MTA
((OPTION_C)) This is optional	Two UA, two pair of MTA, two pair of MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It provides a service to the user to make the process of sending and receiving message
((OPTION_A)) THIS IS MANDATORY OPTION	MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAA
((OPTION_C)) This is optional	UA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following services is not provided by UA
((OPTION_A)) THIS IS MANDATORY OPTION	Composing message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Reading message
((OPTION_C)) This is optional	Reply message
((OPTION_D)) This is optional	ALL are
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There are two types of user agents
((OPTION_A)) THIS IS MANDATORY OPTION	Command driven, data driven
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Command driven, GUI based
((OPTION_C)) This is optional	Command based and data based
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It contains the sender address, receiver address and other information
((OPTION_A)) THIS IS MANDATORY OPTION	Message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Envelop
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The message contains
((OPTION_A)) THIS IS MANDATORY OPTION	Header, envelop
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Header, body
((OPTION_C)) This is optional	Envelop, body
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the internet, the email address contains two parts
((OPTION_A)) THIS IS MANDATORY OPTION	Local part, domain name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Global part, domain name
((OPTION_C)) This is optional	Label, domain name
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is a supplementary protocol that allow Non ASCII data to be sent through email
((OPTION_A)) THIS IS MANDATORY OPTION	JPEG
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MPEG
((OPTION_C)) This is optional	MIME
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The actual email transfer is done through
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol that defines a MTA client and server in the internet is called
((OPTION_A)) THIS IS MANDATORY OPTION	SMTP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SNMP
((OPTION_C)) This is optional	TELNET
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of transferring a mail message occurs in-----phase
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SMTP is --- protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in a email transfer need a ---protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in an email transfer uses an ----protocol
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Currently two message asses protocol are available
((OPTION_A)) THIS IS MANDATORY OPTION	POP3, IMAP2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POP4,IMAP1
((OPTION_C)) This is optional	POP3, IMAP4
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

This sheet is for 1 Mark questions							
S.r No	Question	Image	a	b	c	d	Correct Answer
1	_____ is the practice and precautions taken to protect valuable information from unauthorized access, recording, disclosure or destruction.		a) Network Security a) Cloud workload protection platforms a) Bug	b) Database Security b) Cloud security b) Threat	c) Information Security c) AWS c) Vulnerability	d) Physical Security d) One Drive d) Attack	c a b
2	_____ platforms are used for safety and protection of information in the cloud.						
3	Compromising confidential information comes under _____						
4	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____		a) Cyber-crime a) Triangle	b) Cyber Attack b) Diagonal	c) System hijacking c) Ellipse	d) Digital crime d) Circle	b a
5	The CIA triad is often represented by which of the following?						
6	Related to information security, confidentiality is the opposite of which of the following?		a) Closure	b) Disclosure	c) Disaster	d) Disposal	b
7	When you use the word _____ it means you are protecting your data from getting disclosed.		a) Confidentiality a) Confidentiality	b) Integrity b) Integrity	c) Authentication c) Authentication	d) Availability d) Non-repudiation	a b
8	_____ means the protection of data from modification by unknown users.						
9	_____ of information means, only authorized users are capable of accessing the information.		a) Confidentiality	b) Integrity	c) Non-repudiation	d) Availability	d
10	This helps in identifying the origin of information and authentic user. This referred to here as _____		a) Confidentiality a) Encryption	b) Integrity b) Locking b) Open Systems Interconnections	c) Authenticity c) Decryption	d) Availability d) Backup d) Open Standard Interconnections	c a
11	Data _____ is used to ensure confidentiality.						
12	What does OSI stand for in the OSI Security Architecture?		a) Open System Interface		c) Open Source Initiative		b
13	A company requires its users to change passwords every month. This improves the _____ of the network.		a) Performance	b) Reliability	c) Security	d) None of the above	c
14	Release of message contents and Traffic analysis are two types of _____ attacks.		a) Active Attack a) Cipher script	b) Modification of Attack b) Cipher text	c) Passive attack c) Secret text	d) DoS Attack d) Secret script	c b
15	The _____ is encrypted text.		NTLM	MITM	NetBIOS	SMB	
16	What type of attack uses a fraudulent server with a relay address?						
17	Which of the following Algorithms not belong to symmetric encryption			RSA	RC5	IDEA	b
18	Which is the largest disadvantage of the symmetric Encryption?				More complex and therefore Problem of the security	Less secure encryption function	b
19	In cryptography, what is cipher?					Isn't used any more.	
20	In asymmetric key cryptography, the private key is kept by _____		algorithm for performing encryption	both algorithm for performing decryption			a
21	Which one of the following algorithm is not used in asymmetric-key cryptography?		sender	message receiver	sender and receiver	all the connected devices	b
22	In cryptography, the order of the letters in a message is rearranged by _____		rsa algorithm		diffie-hellman algorithm	electronic code book algorithm	c
23	What is data encryption standard (DES)?		transpositional ciphers	substitution ciphers	both transpositional ciphers	a quadratic ciphers	a
24	A asymmetric-key (or public key ) cipher uses		block cipher	stream cipher	bit cipher	byte cipher	a
25	In asymmetric key cryptography, the two keys e and d, have special relationship to _____		1 key	2 key	3 key	4 key	b
26	_____ is the process or mechanism used for converting ordinary plain text into garbled non-human readable text & vice-versa.		others	data	keys	each other	d
27	_____ is a means of storing & transmitting information in a specific format so that only those for whom it is planned can understand or process it.		Malware Analysis	Exploit writing	Reverse engineering	Cryptography	d
28	4. Cryptographic algorithms are based on mathematical algorithms where these algorithms use _____ for a secure transformation of data.						
29	Conventional cryptography is also known as _____ or symmetric-key encryption.		secret key	external programs	add-ons	secondary key	a
30	The procedure to add bits to the last block is termed as _____		secret-key decryption	public key hashing	protected key tuning	primary key padding	a d
31	How many rounds does the AES-192 perform?						b
32	ECC encryption system is _____		10 symmetric key encryption algorithm	12	14	16	
				asymmetric key encr not an encryption algorithm	block cipher method		

33	_____ function creates a message digest out of a message.						
34	Extensions to the X.509 certificates were added in version _____						
35	A digital signature needs _____ system						
36	"Elliptic curve cryptography follows the associative property."						
37	ECC stands for						
38	When a hash function is used to provide message authentication, the hash function value is referred to as						
39	Message authentication code is also known as						
40	The main difference in MACs and digital signatures is that, in digital signatures the hash value of the message is encrypted with a user's public key.						
41	The DSS signature uses which hash algorithm?						
42	What is the size of the RSA signature hash after the MD5 and SHA-1 processing?						
43	In the handshake protocol which is the message type first sent between client and server ?						
44	One commonly used public-key cryptography method is the _____ algorithm.						
45	he _____ method provides a one-time session key for two parties.						
46	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.						
47	In the handshake protocol which is the message type first sent between client and server ?						
48	1. VPN is abbreviated as _____						
49	_____ provides an isolated tunnel across a public network for sending and receiving data privately as if the computing devices were directly connected to the private network.						
50	Which of the statements are not true to classify VPN systems?						
51	What types of protocols are used in VPNs?						
52	VPNs uses encryption techniques to maintain security and privacy while communicating remotely via public network.						
53	There are _____ types of VPNs.						
54	_____ type of VPNs are used for home private and secure connectivity.						
55	Which types of VPNs are used for corporate connectivity across companies residing in different geographical location?						
56	Site-to-Site VPN architecture is also known as _____						
57	There are _____ types of VPN protocols.						
58	IPSec is designed to provide security at the _____						
59	In tunnel mode, IPSec protects the _____						
60	Pretty good privacy (PGP) is used in _____						
61	PGP encrypts data by using a block cipher called _____						
62	IKE creates SAs for _____.						
63	_____ provides either authentication or encryption, or both, for packets at the IP level.						
64	A _____ network is used inside an organization.						
65	SSL provides _____.						
		encryption	decryption	hash	none of the above	c	
		symmetric-key TRUE	asymmetric-key FALSE	either (a) or (b)	neither (a) nor (b)	c b a	
		Elliptic curve cryptography	Enhanced curve crypt	Elliptic cone crypt	Eclipse curve cryptograph	a	
		Message Field	Message Digest	Message Score	Message Leap	d	
		key code	hash code	keyed hash function	message key hash functio	b	
		TRUE	FALSE				
		MD5 42 bytes	SHA-2 32 bytes	SHA-1 36 bytes	Does not use hash algoritl 48 bytes	b c c	
		server_hello RSS Diffie-Hellman	client_hello RAS RSA	hello_request RSA DES	certificate_request RAA AES	b c a	
		man-in-the-middle	ciphertext attack	plaintext attack	none of the above	a	
		server_hello	client_hello	hello_request	certificate_request	b	
		Visual Private Network	Virtual Protocol Netw	Virtual Private Network	Virtual Protocol Networki	c	
		Visual Private Network	Virtual Protocol Netw	Virtual Protocol Networking	Virtual Private Network	d	
		Protocols used for tunnelling	Whether VPNs are pr	Securing the network from bc	Levels of security provide	c	
		Application level protocols	Tunnelling protocols	Network protocols	Mailing protocols	a	
		TRUE	False			a	
		Remote access VPNs	Site-to-site VPNs	Peer-to-Peer VPNs	Router-to-router VPNs	b a	
		Remote access VPNs	Site-to-site VPNs	Peer-to-Peer VPNs	Country-to-country VPNs	b	
		Remote connection based \ Peer-to-Peer VPNs	Extranet based VPN		Country-to-country VPNs	c	
		3	4	5	6	d b a b	
		Transport layer Entire IP packet Browser security	Network layer IP header Email security Private data	Application layer IP payload FTP security	Session layer IP trailer WiFi security		
		International data encryption algorithm SSL AH private	encryption algorithm PGP ESP public	Internet data encryption algorithm IPSec PGP semi-private	Local data encryption algorithm VP SSL semi-public	a c b a	
		message integrity	confidentiality	compression	all of the above	d	

66	IKE uses _____	Oakley	SKEME	ISAKMP	all of the above	d
67	In _____, there is a single path from the fully trusted authority to any certificate.	X509	PGP	KDC	none of the above	a
68	A _____ provides privacy for LANs that must communicate through the global Internet.	VPP	VNP	VNN	VPN	d
69	_____ uses the idea of certificate trust levels.	X509	PGP	KDC	none of the above	b
70	_____ provides privacy, integrity, and authentication in e-mail.	IPSec	SSL	PGP	none of the above	c
71	In _____, there can be multiple paths from fully or partially trusted authorities.	X509	PGP	KDC	none of the above	b
72	_____ provides authentication at the IP level.	AH	ESP	PGP	SSL	a
73	In _____, the cryptographic algorithms and secrets are sent with the message.	IPSec	SSL	TLS	PGP	d
74	_____ was invented by Phil Zimmerman.	IPSec	SSL	PGP	none of the above	c
75	ISAKMP stands for _____	Internet system Association and Key Management Packet	Association and Key Management	Interchange System And Key Protocol	Internet Security Association and Key Modeling Protocol	b
76	PGP makes use of which cryptographic algorithm?	DES	AES	RSA	Rabin	c
77	What is the key size allowed in PGP?	1024-1056	1024-4056	1024-4096	1024-2048	c
78	In SSL, what is used for authenticating a message?	MAC (Message Access Code)	Authentication	MAC (Machine Code)	MAC (Machine Access Code)	b
79	S/MIME is abbreviated as _____	Secure/Multimedia Internet Mailing Extensions	Secure/Multipurpos e Internet Mailing Extensions	Secure/Multimedia Internet Mail Extensions	Secure/Multipurpose Internet Mail Extensions	d
80	Security Measures Needed to protect _____ during their transmission	file	Data	packet	All of above	b
81	_____ means knowledge obtained from investigation, study , intelligence new ,facts .	Security	Data	Information	None of These	c
82	Prevention of the unauthorised used of Resources refers too?	Data Integrity	Data confidentiality	Access Control	None of these	c
83	Protection against Denial by one of these parties in a communication refers to?	Non-Repudiation	Data integrity	Authentication	None of these	a
84	Which One of them is Passive attack?	Denial of Service	modify message in transit	Replay previous message	obtain message contain	d
85	What is lying of IP address called as?	IP Spoofing	IP Scamming	IP Lying	None Of theses	a
86	What is full form of DDoS?	Derived Denial of service	Distributed Denial of service	Denial of service	None of these	b
87	A hacker guessing suggested password to a program is call as?	Password Guessing	Dictionary Attack	Default password attack	None of these	c
88	Symmetric key encryption is also called as?	public key Encryption	Private Key Encryption	Both of these	None of these	b
89	Conversion of Cypher text to plain text?	Encryption	Decryption	Simple text	none of these	b
90	is used to create the organisation's overall security program.	program policy	purpose	security	none of these	a
91	An act of protecting information from unauthorised discloser to an entity.-	integrity	availability	confidentiality	none of these	c
92	A way to ensure that the entity is indeed what it claims to be.-	Authentication	Accountability	identification	security	a
93	The _____ model is 7 layer architecture where each layer is having some specific functionality to perform.	TCP	OSI	OIS	none of these	b
94	The full form of OSI is OSI model_____.	open systems interconnection	open software interconnection	open connection	open system internet	a
95	The technique in which when one character is replaced by another Character is called as?	Transposition	Substitution	Combinational	None of these	b
96	Conversion of plain text into Cipher text is called as _____.	Encryption	Decryption	Hidden Text	none of above	a
97	In Symmetric schemes requires both parties to share how many secret key?	one	two	three	four	a
98	Blum Blum Shub Generator is based on which Algorithm?	Private key	Public key	both a & b	none of these	b
99	In DES step both LPT and RPT undergoes in how much key Rounds?		8	16	32	64
100	What is the 4th step in DES Algorithm?	key transformation	S-box Substitution	P-box Permutation	Expansion permutation	c
101	In AES in which Round Subkeys are Generated from Original key for each round?	Key Expansion	Initial Round	Finale Round	none of these	a
102	AES stands for?	Authorized Encryption Standard	Advance Encryption Standard	Advance Encryption Strategy	none of these	b
103	Which of them is type of Cipher?	Stream Cipher	Block Cipher	both of Them	none of these	c
104	The message which is not understandable is called as?	Cipher Text	plain text	Hidden text	both a & c	a

105	The _____ is a polygraphic substitution cipher based on linear algebra.	Hill cipher	playfair cipher	Affine cipher	none of these	a
106	_____ is the practice of concealing a message within another message,image or file.	steganography	cryptography	cipher	receiver	a
107	In asymmetric key cryptography, the private key is kept by _____	sender	receiver	sender and receiver	none of these	b
108	What is data encryption standard (DES)?	block cipher	stream cipher	bit cipher	byte cipher	a
109	In cryptography the original message before being transform is called	simple text	plain text	empty text	filled text	b
110	An asymmetric-key (or public-key) cipher uses	1 key	2 key	3 key	4 key	a
111	In Asymmetric-Key Cryptography, although RSA can be used to encrypt and decrypt actual messages, it is very slow if the message is	Short	Flat	Long	Thin	c
112	The man-in-the-middle attack can endanger the security of the Diffie-Hellman method if two parties are not	Authenticated	Joined	Submit	Separate	a
113	In Asymmetric-Key Cryptography, the two keys, e and d, have a special relationship to	other	Data	Keys	Each other	d
114	For RSA to work, the value of P must be less than the value of	p	q	n	r	c
115	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.	(p)/(q)	(p)(q)	(p-1)(q-1)	(p+1)(q+1)	c
116	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .	TRUE	FALSE			b
117	RSA is also a stream cipher like Merkel-Hellman.	TRUE	FALSE			a
118	USENET falls under which category of public key sharing?	public announcement	publicly available directory	public key authority	public key certificate	a
119	PGP makes use of which cryptographic algorithm?	RSA	AES	DES	ROBIN	a
120	Public key cryptography also called as _____	Asymmetric key cryptography	Symmetric key cryptography	Both a and b	None of the above	a
121	ECC stands for	Elliptic Curve Cryptography	Elliptic Cryptography Curve	Error Correcting Code	None of the above	a
122	Diffie-Hellman algorithm is widely known as _____	Key exchange algorithm	key agreement algorithm	only a	Both a and b	d
123	Hash function is used for _____	Message authentication	Digital Signature	Both a and b	only a	c
124	RSA algorithm is best example of _____	Asymmetric key cryptography	Symmetric key cryptography	Elliptic Curve Cryptography	All of the above	a
125	IPSec is designed to provide security at the _____	Transport layer	Network layer	Application layer	Session layer	b
126	In tunnel mode, IPSec protects the _____	Entire IP packet	IP header	IP payload	IP trailer	a
127	HTTPS is abbreviated as _____	Hypertext Transfer Protocol Secured	Secured Hyper Text Transfer Protocol	Hyperlinked Text Transfer Protocol Secured	Hyper Text Transfer Protocol Secure	d
128	An attempt to make a computer resource unavailable to its intended users is called _____	Denial-of-service attack	Virus attack	Worms attack	Botnet process	a
129	SSL primarily focuses on _____	integrity and authenticity	integrity and non-repudiation	authenticity and privacy	confidentiality and integrity	a
130	Pretty good privacy (PGP) is used in _____	Browser security	Email security	WiFi security	FTP security	b
131	_____ is used for encrypting data at network level	IPSec	HTTPS	SMTP	S/MIME	a
132	WPA2 is used for security in _____	Ethernet	Wi-Fi	Bluetooth	E-mail	b
133	Which of the following is not a strong security protocol	SSL	HTTP	SMTP	SFTP	c
134	TSL (Transport Layer Security) is a cryptographic protocol used for securing HTTP/HTTPS based connection.	TRUE	FALSE			a
135	IPSec operates in..... different modes		3	2	4	5 b
136	length of the IPv4 address is ....	32 bits	64 bits	16 bits	128 bit	a
137	Internet Key Exchange has .... phases and modes of operations		4	3	2	5 c
138	PGP is abbreviated as	Pretty Good Privacy	Pretty Good Policy	Policy Good Privacy	Pretty Good Protection	a
139	SET stands for	Set Electronic Transaction	Transaction	Simple Electronic Transaction	none of the above	b
140	Transport layer Protocol consists of ... main components		2	1	3	4 a
141	length of the IPv6 address is ....	32 bits	64 bits	16 bits	128 bit	b
142	SSL provides _____ .	message integrity	confidentiality	compression	all of the above	d
143	IPSec provides ....protocols for network layer		7	3	1	4 a
144	length of the IPv6 header is....	64 bits	16 bits	32 bits	8 bits	c

## Question Bank for Information and Cyber Security (ICS)

### 1. Why would a hacker use a proxy server?

- A. To create a stronger connection with the target.
- B. To create a ghost server on the network.
- C. To obtain a remote access connection.
- D. To hide malicious activity on the network.

**Correct Answer – D**

**Explanation –** Proxy servers exist to act as an intermediary between the hacker and the target and services to keep the hacker anonymous to the network.

### 2. What type of symmetric key algorithm using a streaming cipher to encrypt information?

- A. RC4
- B. Blowfish
- C. SHA
- D. MD5

**Correct Answer – A**

**Explanation –** RC4 uses streaming ciphers.

### 3. Which of the following is not a factor in securing the environment against an attack on security?

- A. The education of the attacker
- B. The system configuration
- C. The network architecture
- D. The business strategy of the company
- E. The level of access provided to employees

**Correct Answer – D**

**Explanation –** All of the answers are factors supporting the exploitation or prevention of an attack. The business strategy may provide the motivation for a potential attack, but by itself will not influence the outcome.

### 4. What type of attack uses a fraudulent server with a relay address?

- A. NTLM
- B. MITM
- C. NetBIOS
- D. SMB

**Correct Answer – B**

**Explanation –** MITM (Man in the Middle) attacks create a server with a relay address. It is used in SMB relay attacks.

### 5. What port is used to connect to the Active Directory in Windows 2000?

- A. 80
- B. 445
- C. 139
- D. 389

**Correct Answer – D**

**Explanation –** The Active Directory Administration Tool used for a Windows 2000 LDAP client uses port 389 to connect to the Active Directory service.

### 6. To hide information inside a picture, what technology is used?

- A. Rootkits
- B. Bitmapping

- C. Steganography
- D. Image Rendering

**Correct Answer – C**

**Explanation** – Steganography is the right answer and can be used to hide information in pictures, music, or videos.

**7. Which phase of hacking performs actual attack on a network or system?**

- A. Reconnaissance
- B. Maintaining Access
- C. Scanning
- D. Gaining Access

**Correct Answer – D**

**Explanation** – In the process of hacking, actual attacks are performed when gaining access, or ownership, of the network or system. Reconnaissance and Scanning are information gathering steps to identify the best possible action for staging the attack. Maintaining access attempts to prolong the attack.

**8. Attempting to gain access to a network using an employee's credentials is called the \_\_\_\_\_ mode of ethical hacking.**

- A. Local networking
- B. Social engineering
- C. Physical entry
- D. Remote networking

**Correct Answer – A**

**Explanation** – Local networking uses an employee's credentials, or access rights, to gain access to the network. Physical entry uses credentials to gain access to the physical IT infrastructure.

**9. Which Federal Code applies the consequences of hacking activities that disrupt subway transit systems?**

- A. Electronic Communications Interception of Oral Communications
- B. 18 U.S.C. § 1029
- C. Cyber Security Enhancement Act 2002
- D. 18 U.S.C. § 1030

**Correct Answer – C**

**Explanation** – The Cyber Security Enhancement Act 2002 deals with life sentences for hackers who recklessly endanger the lives of others, specifically transportation systems.

**10. Which of the following is not a typical characteristic of an ethical hacker?**

- A. Excellent knowledge of Windows.
- B. Understands the process of exploiting network vulnerabilities.
- C. Patience, persistence and perseverance.
- D. Has the highest level of security for the organization.

**Correct Answer – D**

**Explanation** – Each answer has validity as a characteristic of an ethical hacker. Though having the highest security clearance is ideal, it is not always the case in an organization.

**11. What is the proper command to perform an Nmap XMAS scan every 15seconds?**

- A. nmap -sX -sneaky
- B. nmap -sX -paranoid
- C. nmap -sX -aggressive
- D. nmap -sX -polite

**Correct Answer – A**

**Explanation** – SX is used to identify a xmas scan, while sneaky performs scans 15 seconds apart.

**12. What type of rootkit will patch, hook, or replace the version of system call in order to hide information?**

- A. Library level rootkits
- B. Kernel level rootkits
- C. System level rootkits
- D. Application level rootkits

**Correct Answer – A**

**Explanation** – Library leve rootkits is the correct answer. Kerel level focuses on replaceing specific code while application level will concentrate on modifying the behavior of the application or replacing application binaries. The type, system level, does not exist for rootkits.

**13. What is the purpose of a Denial of Service attack?**

- A. Exploit a weakness in the TCP/IP stack
- B. To execute a Trojan on a system
- C. To overload a system so it is no longer operational
- D. To shutdown services by turning them off

**Correct Answer – C**

**Explanation** – DoS attacks force systems to stop responding by overloading the processing of the system.

**14. What are some of the most common vulnerabilities that exist in a network or system?**

- A. Changing manufacturer, or recommended, settings of a newly installed application.
- B. Additional unused features on commercial software packages.
- C. Utilizing open source application code
- D. Balancing security concerns with functionality and ease of use of a system.

**Correct Answer – B**

**Explanation** – Linux is an open source code and considered to have greater security than the commercial Windows environment. Balancing security. Ease of use and functionality can open vulnerabilities that already exist. Manufacturer settings, or default settings, may provide basic protection against hacking threats, but need to change to provide advance support. The unused features of application code provide an excellent opportunity to attack and cover the attack.

**15. What is the sequence of a TCP connection?**

- A. SYN-ACK-FIN
- B. SYN-SYN ACK-ACK
- C. SYN-ACK
- D. SYN-SYN-ACK

**Correct Answer – B**

**Explanation** – A three-handed connection of TCP will start with a SYN packet followed by a SYN-ACK packet. A final ACK packet will complete the connection.

**16. What tool can be used to perform SNMP enumeration?**

- A. DNSlookup
- B. Whois
- C. Nslookup
- D. IP Network Browser

**Correct Answer – D**

**Explanation** – SNMPPUtil and IP Network Browser is SNMP enumeration tool

**17. Which ports should be blocked to prevent null session enumeration?**

- A. Ports 120 and 445
- B. Ports 135 and 136
- C. Ports 110 and 137
- D. Ports 135 and 139

**Correct Answer – D**

**Explanation** – Port 139 is the NetBIOS Session port typically can provide large amounts of information using APIs to connect to the system. Other ports that can be blocked in 135, 137,138, and 445.

**18. The first phase of hacking an IT system is compromise of which foundation of security?**

- A. Availability
- B. Confidentiality
- C. Integrity
- D. Authentication

**Correct Answer – B**

**Explanation** – Reconnaissance is about gathering confidential information, such as usernames and passwords.

**19. How is IP address spoofing detected?**

- A. Installing and configuring a IDS that can read the IP header
- B. Comparing the TTL values of the actual and spoofed addresses
- C. Implementing a firewall to the network
- D. Identify all TCP sessions that are initiated but does not complete successfully

**Correct Answer – B**

**Explanation** – IP address spoofing is detectable by comparing TTL values of the actual and spoofed IP addresses

**20. Why would a ping sweep be used?**

- A. To identify live systems
- B. To locate live systems
- C. To identify open ports
- D. To locate firewalls

**Correct Answer – A**

**Explanation** – A ping sweep is intended to identify live systems. Once an active system is found on the network, other information may be distinguished, including location. Open ports and firewalls.

**21. What are the port states determined by Nmap?**

- A. Active, inactive, standby
- B. Open, half-open, closed
- C. Open, filtered, unfiltered
- D. Active, closed, unused

**Correct Answer – C**

**Explanation** – Nmap determines that ports are open, filtered, or unfiltered.

**22. What port does Telnet use?**

- A. 22
- B. 80
- C. 20
- D. 23

**Correct Answer – D**

**Explanation** – Telnet uses port 23.

**23. Which of the following will allow footprinting to be conducted without detection?**

- A. PingSweep
- B. Traceroute
- C. War Dialers
- D. ARIN

**Correct Answer – D**

**Explanation** – ARIN is a publicly accessible database, which has information that could be valuable. Because it is public, any attempt to obtain information in the database would go undetected.

**24. Performing hacking activities with the intent on gaining visibility for an unfair situation is called \_\_\_\_\_.**

- A. Cracking
- B. Analysis
- C. Hacktivism
- D. Exploitation

**Correct Answer – C**

**Explanation** – Hacktivism is the act of malicious hacking for a cause or purpose.

**25. What is the most important activity in system hacking?**

- A. Information gathering
- B. Cracking passwords
- C. Escalating privileges
- D. Covering tracks

**Correct Answer – B**

**Explanation** – Passwords are a key component to access a system, making cracking the password the most important part of system hacking.

**26. A packet with no flags set is which type of scan?**

- A. TCP
- B. XMAS
- C. IDLE
- D. NULL

**Correct Answer – D**

**Explanation** – A NULL scan has no flags set.

**27. Sniffing is used to perform \_\_\_\_\_ fingerprinting.**

- A. Passive stack
- B. Active stack
- C. Passive banner grabbing
- D. Scanned

**Correct Answer – A**

**Explanation** – Passive stack fingerprinting uses sniffing technologies instead of scanning.

**28. Phishing is a form of \_\_\_\_\_.**

- A. Spamming
- B. Identify Theft
- C. Impersonation
- D. Scanning

**Correct Answer – C**

**Explanation** – Phishing is typically a potential attacker posing, or impersonating, a financial institution

**29. Why would HTTP Tunneling be used?**

- A. To identify proxy servers
- B. Web activity is not scanned
- C. To bypass a firewall
- D. HTTP is a easy protocol to work with

**Correct Answer – C**

**Explanation** – HTTP Tunneling is used to bypass the IDS and firewalls present on a network.

**30. Which Nmap scan is does not completely open a TCP connection?**

- A. SYN stealth scan
- B. TCP connect
- C. XMAS tree scan
- D. ACK scan

**Correct Answer – A**

**Explanation** – Also known as a “half-open scanning,” SYN stealth scan will not complete a full TCP connection.

**31. What protocol is the Active Directory database based on?**

- A. LDAP
- B. TCP
- C. SQL
- D. HTTP

**Correct Answer – A**

**Explanation** – Active4 direction in Windows 200 is based on a Lightweight Directory Access Protocol (LDAP).

**32. Services running on a system are determined by \_\_\_\_\_.**

- A. The system’s IP address.
- B. The Active Directory
- C. The system’s network name
- D. The port assigned

**Correct Answer – D**

**Explanation** – Hackers can identify services running on a system by the open ports that are found.

**33. What are the types of scanning?**

- A. Port, network, and services
- B. Network, vulnerability, and port
- C. Passive, active, and interactive
- D. Server, client, and network

**Correct Answer – B**

**Explanation** – The three types of accepted scans are port, network, and vulnerability.

**34. Enumeration is part of what phase of ethical hacking?**

- A. Reconnaissance
- B. Maintaining Access
- C. Gaining Access
- D. Scanning

**Correct Answer – C**

**Explanation** – Enumeration is a process of gaining access to the network by obtaining information on a user or system to be used during an attack.

**35. Keyloggers are a form of \_\_\_\_\_.**

- A. Spyware
- B. Shoulder surfing
- C. Trojan
- D. Social engineering

**Correct Answer – A**

**Explanation** – Keyloggers are a form of hardware or software spyware installed between the keyboard and operating system.

**36. What are hybrid attacks?**

- A. An attempt to crack passwords using words that can be found in dictionary.
- B. An attempt to crack passwords by replacing characters of a dictionary word with numbers and symbols.
- C. An attempt to crack passwords using a combination of characters, numbers, and symbols.
- D. An attempt to crack passwords by replacing characters with numbers and symbols.

**Correct Answer – B**

**Explanation** – Hybrid attacks do crack passwords that are created with replaced characters of dictionary type words.

**37. Which form of encryption does WPA use?**

- A. Shared key
- B. LEAP
- C. TKIP
- D. AES

**Correct Answer – C**

**Explanation** – TKIP is used by WPA

**38. What is the best statement for taking advantage of a weakness in the security of an IT system?**

- A. Threat
- B. Attack
- C. Exploit
- D. Vulnerability

**Correct Answer – C**

**Explanation** – A weakness in security is exploited. An attack does the exploitation. A weakness is vulnerability. A threat is a potential vulnerability.

**39. Which database is queried by Whois?**

- A. ICANN
- B. ARIN
- C. APNIC
- D. DNS

**Correct Answer – A**

**Explanation** – Who utilizes the Internet Corporation for Assigned Names and Numbers.

**40. Having individuals provide personal information to obtain a free offer provided through the Internet is considered what type of social engineering?**

- A. Web-based
- B. Human-based
- C. User-based
- D. Computer-based

**Correct Answer – D**

**Explanation** – Whether using email, a fake website, or popup to entice the user, obtaining information from an individual over the Internet is a computer-based type of social engineering

**1) You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,**

$$A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$$

**Is the given matrix 'A', a valid key to be used for encryption?**

- a. Yes
- b. No
- c. Can't be determined
- d. Data insufficient

**Answer:** b) No

**Explanation:**

For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist. Here, in this case,

$$|A| = 0$$

Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the [Hill cipher](#).

**2) The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?**

- a. The input text is divided into two parts: one being left half and another one being right half.
- b. Swapping of the left and right halves are performed after each round.
- c. The plain text is converted into a matrix form first
- d. None of the above

**Answer:** c) The plain text is converted into a matrix form first

**Explanation:**

The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

**3) Among the following given options, chose the strongest encryption technique?**

- a. DES ( Data Encryption Standard)
- b. Double DES
- c. Triple DES
- d. AES (Advance Encryption Standard)

**Answer:** d) AES (Advance Encryption Standard)

**Explanation:**

It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

**4) What is the full-form of RSA in the RSA encryption technique?**

- a. Round Security Algorithm
- b. Rivest, Shamir, Adleman
- c. Robert, Shamir, Addie
- d. None of the above

**Answer:** b) Rivest, Shamir, Adleman

**Explanation:**

The RSA algorithm was named after the three scientists who developed this technique and the name RSA is itself the abbreviation of their names: Rivest, Shamir, and Adleman.

**5) Consider the following steps,**

- i. Substitution bytes
- ii. Shift Rows
- iii. Mix columns
- iv. Add round key

**The above steps are performed in each round of which of the following ciphers?**

- a. Rail fence cipher
- b. Data Encryption Standard (DES)
- c. Advance Encryption Standard (AES)
- d. None of the above

**Answer:** c) Advance Encryption Standard (AES)

**Explanation:**

Each round of AES includes the mentioned steps.

**1) What is the block size of plain text in SHA- 512 algorithm?**

- a. 512 bits
- b. 1024 bits
- c. 2048 bits

- d. None of the above

**Answer:** b. 1024 bits

**Explanation:**

The SHA- 512 algorithm uses blocks of plain text one at a time to encrypt them into ciphertext. The size of each block in the SHA- 512 algorithm is 1024 bits.

**2) All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?**

- i. Substitution bytes
- ii. Shift rows
- iii. Mix columns
- iv. Add round key

**Options**

- a. i.
- b. iii.
- c. All of the mentioned
- d. None of the mentioned

**Answer:** b. iii.

**Explanation:**

In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.

**3) What does IDEA stand for in the world of cryptography?**

**or**

**The IDEA word in the IDEA algorithm is the abbreviation for which of the following?**

- a. Independent Decryption Environment Analysis
- b. International Defense Encryption Area
- c. International Data Encryption Algorithm
- d. None of the above

**Answer:** c. International Data Encryption Algorithm

**Explanation:**

The IDEA Algorithm stands for "International Data Encryption Algorithm".

**4) How many sub-keys in the total are used by the IDEA for encrypting the plain text into ciphertext?**

- a. 64 sub- keys
- b. 48 sub- keys
- c. 52 sub- keys
- d. Only one key and no subkeys

**Answer:** c. 52 sub- keys

**Explanation:**

There are a total of 8 rounds in the IDEA technique for encryption and each of them uses 6 keys. Apart from that, 4 extra keys are used in the final round that is the output transformation round. This gives us a total of 52 subkeys.

$$(8 \times 6) + 4 = 52$$

**5) "The number of rounds in the AES algorithm depends upon the key size being used."**  
**Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?**

- a. 128 key size: 10 rounds
- b. 192 key size: 12 rounds
- c. 256 key size: 14 rounds
- d. All of the above

**Answer:** d. All of the above

**Explanation:**

All the mentioned options display the correct relation between the number of rounds and the key size used in the AES algorithm.

**6) Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?**

- a. Avalanche effect
- b. Completeness
- c. Both a. and b.
- d. None of the above

**Answer:** c. Both a. and b.

**Explanation:**

Avalanche effect and Completeness are the two characteristic properties of Block ciphers which differ them from stream ciphers.

**81. Public key encryption/decryption is not preferred because**

- a. it is slow

- b.** it is hardware/software intensive
- c.** it has a high computational load
- d.** all of the mentioned

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**Answer:** (d).all of the mentioned

- 82.** Which one of the following is not a public key distribution means?
- a.** Public-Key Certificates
  - b.** Hashing Certificates
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (b).Hashing Certificates

- 83.** What is the PGP stand for?
- a.** Permuted Gap Permission
  - b.** Permuted Great Privacy
  - c.** Pretty Good Permission
  - d.** None of the mentioned

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**Answer:** (d).None of the mentioned

- 84.** PGP makes use of which cryptographic algorithm?
- a.** DES
  - b.** AES

c. RSA

d. Rabin

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**Answer:** (c).RSA

**85.** USENET is related to which of the following Public Key distribution schemes?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (b).Public announcements

**86.** Which of the following public key distribution systems is most secure?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (a).Public-Key Certificates

**87.** Which systems use a timestamp?

i) Public-Key Certificates

ii) Public announcements

iii) Publicly available directories

iv) Public-Key authority

a. i) and ii)

- b.** iii) and iv)
- c.** i) and iv)
- d.** iv) only

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**Answer:** (c).i) and iv)

- 88.** Which of these systems use timestamps as an expiration date?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 89.** Which system uses a trusted third party interface?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 90.** Publicly Available directory is more secure than which other system?
- a.** Public-Key Certificates
  - b.** Public announcements

- c. Public-Key authority
- d. None of the mentioned

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**Answer:** (b).Public announcements

1. A method used by an IDS that involves checking for a pattern to identify unauthorized activity.*(No Answer)*
  - a. **CORRECT:** Pattern Matching
  - b. Session Splicing
  - c. Protocol Decoding
  - d. State Table
2. A list or table of stored by a router (or switch) that controls access to and from a network.*(No Answer)*
  - . State Table
    - a. **CORRECT:** Access Control List (ACL)
    - b. Session Splicing
    - c. Packet Filter
3. An analysis method used by some IDS that looks for instances that are not considered normal behavior.*(No Answer)*
  - . Stateful Inspection
    - a. **CORRECT:** Anomaly Detection
    - b. Evasion
    - c. Pattern Matching
4. Bypassing a device, or performing another action, to attack or place malware on a target network without being detected.*(No Answer)*
  - . Packet Filter
    - a. State Table
    - b. **CORRECT:** Evasion
    - c. Honeypot

5. A type of firewall closely related to a packet filter that can track the status of a connection through use of a state table that keeps track of connection activities.(*No Answer*)
  - . Anomaly Detection
    - a. Protocol Decoding
    - b. **CORRECT:** Stateful Inspection
    - c. State Table
6. A tool that uses the monitoring of network traffic, detection of unauthorized access attempts, and notification of unauthorized access attempts to network administrator.(*No Answer*)
  - . Anomaly Detection
    - a. Access Control List (ACL)
    - b. **CORRECT:** Intrusion Detection System (IDS)
    - c. Session Splicing
7. A type of stateless inspection used in some routers and firewalls to limit flow of traffic to what is on the ACL.(*No Answer*)
  - . **CORRECT:** Packet Filter
    - a. Proxy Server
    - b. Evasion
    - c. State Table
8. A way of looking at raw packet data.(*No Answer*)
  - . Proxy Server
    - a. Session Splicing
    - b. **CORRECT:** Protocol Decoding
    - c. Pattern Matching
9. A server (or application) that intercepts the requests clients make of another server, fills the requests that it can, and then forwards the requests it can't handle on to the other server thus helping to improve performance and security.(*No Answer*)
  - . Honeypot
    - a. **CORRECT:** Proxy Server
    - b. Packet Filter
    - c. State Table

10. A table in which data about connection activity is kept by a stateful firewall.(*No Answer*)
- . Evasion
    - a. **CORRECT:** State Table
    - b. Honeypot
    - c. Proxy Server
11. Something set up on a separate network (or in DMZ) to attract hackers and lure them away from the real network; it logs keystrokes, provides other information about an attacker, and also provides warning that someone is trying to attack your network.(*No Answer*)
- . Proxy Server
    - a. State Table
    - b. Evasion
    - c. **CORRECT:** Honeypot
12. A way to change network address information in IP packet headers with a router by connecting multiple computers using one IP address connected to the Internet (or IP network) to convert many private addresses into one public address.(*No Answer*)
- . Access Control List (ACL)
    - a. **CORRECT:** Network Address Translation (NAT)
    - b. Anomaly Detection
    - c. Intrusion Detection System (IDS)
13. A method of avoiding detection by an IDS by sending portions of a request in different packets.(*No Answer*)
- . **CORRECT:** Session Splicing
    - a. Protocol Decoding
    - b. Pattern Matching
    - c. Evasion

1.

What are drawbacks of the host based IDS ?

- A.) Unselective logging of messages may increase the audit burdens
- B.) Selective logging runs the risk of missed attacks
- C.) They are very fast to detect

- D.) They have to be programmed for new patterns

**Show Answer**

**Answer: Option 'A'**

**Unselective logging of messages may increase the audit burdens**

2.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

3.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

4.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

5.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider

- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

6.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

7.

What are characteristics of stack based IDS ?

- A.) They are integrated closely with the TCP/IP stack and watch packets
- B.) The host operating system logs in the audit information
- C.) It is programmed to interpret a certain series of packets
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They are integrated closely with the TCP/IP stack and watch packets**

8.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider
- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

9.

What are characteristics of Network based IDS ?

- A.) They look for attack signatures in network traffic
- B.) Filter decides which traffic will not be discarded or passed
- C.) It is programmed to interpret a certain series of packet
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They look for attack signatures in network traffic**

10.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

11.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

1. -systematic tracking of incoming and outgoing traffic: to ascertain how an attack was carried out or how an event occurred on a network.

-intruders and network users often leave trail behind

-identify locations where relevant digital evidence exists

-crucial when developing data map of digital evidence(*No Answer*)

- a. SIM Cards
  - b. Windows Registry
  - c. **CORRECT: Network Forensics**
  - d. Drive Slack
2. -personal digital assistant: can be separated devices from mobile phones
- PDA houses a microprocessor, ROM, RAM, disk drive and various components
- most common PDA, although not referred to as such:IPAD(*No Answer*)
- . Partition
    - a. SIM Cards
    - b. EEPROM
    - c. **CORRECT: PDA's**
3. -a logical drive(*No Answer*)
- . EEPROM
    - a. PDA's
    - b. SIM Cards
    - c. **CORRECT: Partition**
4. - .EVE -> .DFT -> IOLogErrors
- .DD -> .DFT -> IOLogErrors -> MD5(*No Answer*)
- . Additional SIM Card Purposes
    - a. Types of The Formats ProDiscover Creates
    - b. **CORRECT: Files Found When Acquisition is Done (ProDiscover)**
    - c. Mobile Forensics Equipment
5. -allows you to create a representation of another computer on an existing physical computer.
- a virtual machine is just a few files on your hard drive: must allocate space to it; dynamic or static
- a virtual machine recognizes components of the physical machine its on: virtual OS is limited by the physical machines O/S and RAM. (*No Answer*)

- . Partition
  - a. **CORRECT:** Virtual Machine
  - b. Drive Slack
  - c. SIM Cards
- 6. Considerations
  - determine the scope of the investigation.
  - determine what the case requires
  - whether you should collect all info
  - what to do in case of scope creep
- \*the key is to start with a plan but remain flexible in the face of new evidence(*No Answer*)
- . **CORRECT:** Examination Plan
  - a. Drive Slack
  - b. Partition
  - c. SIM Cards
- 7. Can be exported as:
  - RTF ~good for thumbnails and book marks
  - TEXT~plain text(*No Answer*)
- . Drive Slack
  - a. Write Blockers
  - b. Windows Registry
  - c. **CORRECT:** ProDiscover Report
- 8. -UNIX DD~most common raw image format
  - .EVE~has case metadata information(*No Answer*)
- . EnCase Output Formats
  - a. Five Major Categories
  - b. ProDiscover Report
  - c. **CORRECT:** Types of The Formats ProDiscover Creates
- 9. -electronically erasable programmable read-only memory
  - how phones store system data

-enables service providers to reprogram phones without having to physically access memory chips

-OS is stored in ROM: nonvolatile memory(*No Answer*)

- . Partition
  - a. file system
  - b. **CORRECT: EEPROM**
  - c. SIM Cards

10. -file manipulation: file names and extensions/ hidden property

-disk manipulation: hidden partitions/bad clusters

-encryption: bit shifting/stenography(*No Answer*)

- . Windows Registry
  - a. Examination Plan
  - b. Virtual Machine
  - c. **CORRECT: Data-hiding Techniques**

11. -gives us a road map to data on a disk

-type of file system an OS used determines how data is stored on the disk(*No Answer*)

- . **CORRECT: file system**
  - a. Drive Slack
  - b. EEPROM
  - c. SIM Cards

12. -the main concerns with mobile devices are loss of power and synchronization with PC's or the cloud (wired or wireless).

-all mobile devices have volatile memory that may contain valuable information: making sure they don't lose power before you can retrieve RAM data is critical.

-isolated the device from incoming signals with one of the following options: shielded container (paint can, enclosures), use the Faraday Bag, use eight layers of anti-static bags, aluminum foil.

-if device is not isolated, the data of the device will continue to change while in custody of the specialist.(*No Answer*)

- . Additional SIM Card Purposes
  - a. Network Forensics
  - b. **CORRECT:** Acquisition Procedures for Mobile Devices
  - c. Challenges With Mobile Devices

13. -acquisition~preservation~collection

-validation~discrimination~culling

~examination~extraction~review

~reconstruction~analysis

~reporting~presentation~production(*No Answer*)

- . Network Forensics
  - a. **CORRECT:** Five Major Categories
  - b. SIM Cards
  - c. Write Blockers

14. -a database that stores hardware and software configuration information, network connections, user preferences, and setup information.

-can contain valuable info about current/past applications and user created information(*No Answer*)

- . SIM Cards
  - a. **CORRECT:** Windows Registry
  - b. file system
  - c. Write Blockers

15. -unused space in a cluster between the end of an active file and the end of a cluster. (Includes RAM slack and file slack)(*No Answer*)

- . SIM Cards
  - a. file system

- b. Write Blockers
- c. **CORRECT: Drive Slack**

16. -subscribers identity module cards

-found most commonly in GSM devices

-microprocessor and from 16KB to 4MB EEPROM

-GSM refers to mobile phones as "mobile station" and divides a station into two parts: the sim card and the mobile equipment and common network in global networks

-portability of information makes SIM cards versatile(*No Answer*)

- . EEPROM
  - a. PDA's
  - b. **CORRECT: SIM Cards**
  - c. Drive Slack

17. -EnCase (E01)

-RAW (DD)

-SMART (S01)

-Sleuth Kit (AFF)(*No Answer*)

- . Five Major Categories
  - a. **CORRECT: Different FTK Output Formats**
  - b. EnCase Output Formats
  - c. Network Forensics

18. -How long a piece of information lasts on a system versus data that must be collected and preserved before its lost, corrupted, or backed up.

Order:

- 1-live network devices (switches/routers)
- 2-live computers/laptops (RAM and processes)
- 3-live other devices (smartphones, PDA's)

4-Devices/computers already OFF

5-Removable media/cables-adapters/documents(*No Answer*)

. **CORRECT:** Order of Volatility

- a. Partition
- b. Drive Slack
- c. Network Forensics

19. -devices are 'live' computers; traditional "stand-alone OFF computers" approach may be inadequate

-devices are connected to 'live' wireless networks; traditional "disconnect" or "segregate" approach network forensics may be inadequate

-devices lack hardware, software and operating system standardization; many variables affect forensic and eDiscovery techniques and analysis results.

-devices are dynamic in location; communications and operability; computers are mostly static.*(No Answer)*

. **CORRECT:** Challenges With Mobile Devices

- a. Write Blockers
- b. Network Forensics
- c. Acquisition Procedures for Mobile Devices

20. -analog

-digital personal communications service (PC's)

-third-generation (3G and 4G): increased bandwidth

\*continuing to evolve*(No Answer)*

. Data-hiding Techniques

- a. **CORRECT:** Three Generations of Mobile Phone Technology
- b. Order of Volatility
- c. Challenges With Mobile Devices

21. -identifies the subscriber to the network

-stores personal information

-stores address books and messages

-stores service-related information(*No Answer*)

- . Five Major Categories
  - a. ProDiscover Report
  - b. **CORRECT:** Additional SIM Card Purposes
  - c. SIM Cards

22. -hardware utilized for protecting source/hard drive from data alteration/tampering while collecting, preserving, and reviewing CSI.

-prevents operating systems and computer programs from making "writes" to the hard drive being acquired, examined, or analyzed.

-write blockers sits between the suspect/source drive and your analysis computer. (It is usually a hardware device, but software based write blockers may be utilized.*(No Answer)*

- . file system
  - a. Drive Slack
  - b. SIM Cards
  - c. **CORRECT:** Write Blockers

23. primary Windows based:

-EnCase

-Forensic Tool Kit (FTK)

-ProDiscover

-OSForensics

primarily Linux based:

-Sleuth Kit and Autopsy

-Helix

-Knoppix STD

-SMART(*No Answer*)

- . Computer Forensic and EDiscovery Tool Needs

- a. **CORRECT:** Computer Forensic Software Tools
  - b. Network Forensics
  - c. Mobile Forensics Equipment
24. -SIM card readers: a combination hardware/software device used to access the SIM card. You need to be in a forensic lab equip with appropriate anti-static devices.

-general forensic procedure for SIM cards:

- 1-remove the back panel of device
- 2-remove the battery
- 3-remove the SIM card
- 4-insert the SIM card into the card reader
- 5-extract relevant information

-a variety of SIM card readers are on the market: some are forensically sound and some are not

-documenting messages that haven't been read yet is critical: use a video camera to capture each screen, if data cannot be extracted with forensic hardware/software

-mobile forensic tools and utilities:

- Ramsey forensic text enclosure (hardware)
- SIM card reader (hardware)
- Paraben Device Seizure (software)
- BitPim (software)
- Susteen SecureView (software)
- EnCase and FTK (software)(*No Answer*)

- . file system
  - a. Network Forensics
  - b. **CORRECT:** Mobile Forensics Equipment
  - c. Computer Forensic Software Tools

25. -EX01

-E01 (Legacy)(*No Answer*)

- . **CORRECT:** EnCase Output Formats
  - a. Different FTK Output Formats
  - b. EEPROM

c. Network Forensics

26. look for versatility, flexibility, and robustness:

- Lab OS
- File System
- Automated Features
- Venders Reputation
- Acceptance by forensic community
- documented testing and validation

-Keep in mind what application files and operating system you'd be analyzing(*No Answer*)

. **CORRECT:** Computer Forensic and EDiscovery Tool Needs

- a. Mobile Forensics Equipment
- b. Types of The Formats ProDiscover Creates
- c. Computer Forensic Software Tools

Sr.No	Questions	Correct Answer
1.	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?  a) Confidentiality b) Integrity c) Authenticity d) Availability	C
2.	CIA triad is also known as _____  a) NIC (Non-repudiation, Integrity, Confidentiality) b) AIC (Availability, Integrity, Confidentiality) c) AIN (Availability, Integrity, Non-repudiation) d) AIC (Authenticity, Integrity, Confidentiality)	B
3.	_____ of information means, only authorised users are capable of accessing the information.  a) Confidentiality b) Integrity c) Non-repudiation d) Availability	A
4.	_____ means the protection of data from modification by unknown users.  a) Confidentiality b) Integrity c) Authentication d) Non-repudiation	B
5.	When you use the word _____ it means you are protecting your data from getting disclosed.  a) Confidentiality b) Integrity c) Authentication d) Availability	A
6.	When integrity is lacking in a security system, _____ occurs.  a) Database hacking b) Data deletion c) Data tampering d) Data leakage	C
7.	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?  a) They help understanding hacking better b) They are key elements to a security breach c) They help understand security and its components better d) They help to understand the cyber-crime better	C

8.	<p>This helps in identifying the origin of information and authentic user. This referred to here as _____</p> <p>a) Confidentiality b) Integrity c) Authenticity d) Availability</p>	C
9.	<p>Data _____ is used to ensure confidentiality.</p> <p>a) Encryption b) Locking c) Deleting d) Backup</p>	A
10.	<p>Data integrity gets compromised when _____ and _____ are taken control off.</p> <p>a) Access control, file deletion b) Network, file permission c) Access control, file permission d) Network, system</p>	C
11.	<p>_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.</p> <p>a) Network Security b) Database Security c) Information Security d) Physical Security</p>	C
12.	<p>From the options below, which of them is not a threat to information security?</p> <p>a) Disaster b) Eavesdropping c) Information leakage d) Unchanged default password</p>	D
13.	<p>Compromising confidential information comes under _____</p> <p>a) Bug b) Threat c) Vulnerability d) Attack</p>	B
14.	<p>Which of the following are not security policies?</p> <p>a)Regulatory b)Advisory c)Availability d)User Policies</p>	C

15.	Examples of User Policies is/are:  a)Password Policies b)Internet Usage c)System Use d)All of the above	D
16.	_____ Policy ensures that the organization is maintaining standards set by specific industry regulation.  a)Regulatory b)Advisory c)Availability d>User Policies	A
17.	_____ Policy is like standards rules and regulations set by the management to advise their employees on their activity or behavior  a)Regulatory b)Advisory c)Availability d>User Policies	B
18.	What defines the restrictions on employees such as usage?  a)Regulatory b)Advisory c)Availability d>User Policies	D
19.	The full form of OSI is OSI model is _____  a) Open Systems Interconnection b) Open Software Interconnection c) Open Systems Internet d) Open Software Internet	A
20.	In _____ layer, vulnerabilities are directly associated with physical access to networks and hardware.  a) physical b) data-link c) network d) application	A
21.	Loss of power and unauthorized change in the functional unit of hardware comes under problems and issues of the physical layer.  a) True b) False	A

22.	Which of the following attack can actively modify communications or data?  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	C
23.	OSI architecture mainly focuses on:  1) Security Attack 2) Security Techniques/Mechanisms 3) Categories of Security Service  a)1 b)1 &3 c) 2& 3 d)1,2,3	D
24.	IT security department must periodically check for security logs and entries made during office hours.  a) True b) False	A
25.	Release of Message Content and Traffic analysis are type of :  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	D
26.	If communication between 2 people is overheard by a third person without manipulation of any data, it is called as:  a) Release of Message Content-Passive Attack b) Traffic analysis -Passive Attacks c) Release of Message Content- Active Attacks d) Traffic analysis -Active Attacks	A
27.	If communication between 2 people is overheard by a third person without extraction of any data, it is called as:  a) Release of Message Content-Passive Attack b) Traffic analysis -Passive Attacks c) Release of Message Content- Active Attacks d) Traffic analysis -Active Attacks	D
28.	No modification of data is a characteristic of  a)Active Attack b)Passive Attack	A
29.	Which of the following are Active attack types	D

	a)Masquerade b)Replay c)Modification d)All of the above	
30.	_____ means when an attacker pretends to be authentic user  a)Masquerade b)Replay c)Modification d)Traffic analysis	A
31.	_____ attack is when original data is modified and malicious data is inserted  a)Masquerade b)Replay(Rewrite) c)Modification d)Traffic analysis	B
32.	When original data is changed to make it non-meaningful by attacker it is known as  a)Masquerade b)Replay c)Modification of Messages d)Traffic analysis	C
33.	Which is the type of attack when Network is made unavailable for user  a)Masquerade b)Replay c)Modification d)Denial of Service	D
34.	Modification of Data is done in:  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	A
35.	The information that gets transformed in encryption is  a) Plain text b) Parallel text c) Encrypted text d) Decrypted text	A
36.	1. The process of transforming plain text into unreadable text.	B

	a) Decryption b) Encryption c) Network Security d) Information Hiding	
37.	A process of making the encrypted text readable again.  a) Decryption b) Encryption c) Network Security d) Information Hiding	A
38.	A unique piece of information that is used in encryption.  a) Cipher b) Plain Text c) Key d) Cipher	C
39.	Assurance that authentic user is taking part in communication is:  a)Authentication b)Authorization c)Access Control d)Auditing	A
40.	ATM pin while withdrawing money is an example of using:  a)Authentication b)Authorization c)Access Control d)Auditing	B
41.	Study of creating a d using encryption and decryption techniques.  a) Cipher b) Cryptography c) Encryption d) Decryption	B
42.	An attack in which the user receives unwanted amount of e-mails.  a) Smurfing b) Denial of service c) E-mail bombing d) Ping storm	C
43.	The process of disguising plaintext in such a way that its substance gets hidden (into what is known as cipher-text) is called	D

	a) cryptanalysis b) decryption c) reverse engineering d) encryption	
44.	In _____ same keys are implemented for encrypting as well as decrypting the information.  a) Symmetric Key Encryption b) Asymmetric Key Encryption c) Asymmetric Key Decryption d) Hash-based Key Encryption	A
45.	The procedure to add bits to the last block is termed as _____  a) decryption b) hashing c) tuning d) padding	D
46.	In asymmetric key cryptography, the private key is kept by _____  a) sender b) receiver c) sender and receiver d) all the connected devices to the network	B
47.	Cryptanalysis is used _____ a) to find some insecurity in a cryptographic scheme b) to increase the speed c) to encrypt the data d) to make new ciphers	A
48.	Conventional cryptography is also known as _____ or symmetric-key encryption.  a) secret-key b) public key c) protected key d) primary key	A
49.	_____ is the art & science of cracking the cipher-text without knowing the key.  a) Cracking b) Cryptanalysis c) Cryptography d) Crypto-hacking	B
50.	In _____ a sequence of actions is carried out on this block after a block of plain-text bits is chosen for generating a block of cipher-text bits.	A

- |  |   |  |
|--|---|--|
|  | a) Block Cipher<br>b) One-time pad<br>c) Hash functions<br>d) Vigenere Cipher |  |
|--|---|--|

- a) Block Cipher
- b) One-time pad
- c) Hash functions
- d) Vigenere Cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a threat to information security?
((OPTION_A)) THIS IS MANDATORY OPTION	Disaster
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Eavesdropping
((OPTION_C)) This is optional	Information leakage
((OPTION_D)) This is optional	Unchanged default password
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Disaster, eavesdropping and information leakage come under information security threats whereas not changing the default password of any system, hardware or any software comes under the category of vulnerabilities that the user may pose to its system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compromising confidential information comes under
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	Threats are anything that may cause damage or harm to a computer system, individual or any information. Compromising of confidential information means extracting out sensitive data from a system by illegal manner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Lack of access control policy is a
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Access control policies are incorporated to a security system for restricting of unauthorised access to any logical or physical system. Every security compliance program must need this as a fundamental component. Those systems which lack this feature is vulnerable.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Possible threat to any information cannot be
((OPTION_A)) THIS IS MANDATORY OPTION	reduced
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transferred
((OPTION_C)) This is optional	protected
((OPTION_D)) This is optional	ignored
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	When there lies a threat to any system, safeguards can be implemented, outsourced, distributed or transferred to some other system, protected using security tools and techniques but cannot be ignored.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?
((OPTION_A))  THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))  This is optional	Authenticity
((OPTION_D))  This is optional	Availability
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	According to the CIA triad the three components that a security need is the Confidentiality, Integrity, Availability (as in short read as

		
CIA).		

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When you use the word _____ it means you are protecting your data from getting disclosed.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	

((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Confidentiality is what every individual prefer in terms of physical privacy as well as digital privacy. This term means our information needs to be protected from getting disclose to unauthorised parties, for which we use different security mechanisms like password protection, biometric security, OTPs (One Time Passwords) etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ means the protection of data from modification by unknown users.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Non-repudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	A information only seems valuable if it is correct and do not get modified during its journey in the course of arrival. The element integrity makes sure that the data sent or generated from other end is correct and is not modified by any unauthorised party in between.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When integrity is lacking in a security system, _____ occurs.
((OPTION_A)) THIS IS MANDATORY OPTION	Database hacking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data deletion
((OPTION_C)) This is optional	Data tampering
((OPTION_D)) This is optional	Data leakage
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The term data tampering is used when integrity is compromised in any security model and checking its integrity later becomes costlier. Example: let suppose you sent \$50 to an authorised person and in between a Man in the Middle (MiTM) attack takes place and the value has tampered to \$500. This is how integrity is compromised.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	of information means, only authorised users are capable of accessing the information.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional.	

If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Information seems useful only when right people (authorised users) access it after going through proper authenticity check. The key element availability ensures that only authorised users are able to access the information.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
((OPTION_A)) THIS IS MANDATORY OPTION	They help understanding hacking better
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	They are key elements to a security breach
((OPTION_C)) This is optional	They help understands security and its components better
((OPTION_D)) This is optional	They help to understand the cyber-crime better
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The four elements of security viz. confidentiality, integrity, authenticity & availability helps in better understanding the pillars of security and its different components.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This helps in identifying the origin of information and authentic user. This referred to here as
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The key element, authenticity helps in assuring the fact that the information is from the original source.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data _____ is used to ensure confidentiality.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Locking
((OPTION_C)) This is optional	Deleting
((OPTION_D)) This is optional	Backup
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Data encryption is the method of converting plain text to cipher-text and only authorised users can decrypt the message back to plain text. This preserves the confidentiality of data

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is not a proper method of maintaining AUTHENTICATION?
((OPTION_A)) THIS IS MANDATORY OPTION	Biometric verification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ID and password based verification
((OPTION_C)) This is optional	2-factor authentication
((OPTION_D)) This is optional	switching off the phone
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Switching off the phone in the fear of preserving the confidentiality of data is not a proper solution for data confidentiality. Fingerprint detection, face recognition, password-based authentication, two-step verifications are some of these.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data integrity gets compromised when _____ and _____ are taken control off.
((OPTION_A)) THIS IS MANDATORY OPTION	Access control, file deletion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Network, file permission
((OPTION_C)) This is optional	Access control, file permission
((OPTION_D)) This is optional	Network, system

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The two key ingredients that need to be kept safe are: access control & file permission in order to preserve data integrity.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One common way to maintain data availability is
((OPTION_A)) THIS IS MANDATORY OPTION	Data clustering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data backup
((OPTION_C)) This is optional	Data recovery
((OPTION_D)) This is optional	Data Altering

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	For preventing data from data-loss, or damage data backup can be done and stored in a different geographical location so that it can sustain its data from natural disasters & unpredictable events.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hackers who help in finding bugs and vulnerabilities in a system & don't intend to crack a system are termed as
((OPTION_A)) THIS IS MANDATORY OPTION	Black Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Grey Hat Hackers
((OPTION_D)) This is optional	Red Hat Hackers

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	White Hat Hackers are cyber security analysts and consultants who have the intent to help firms and Governments in the identification of loopholes as well as help to perform penetration tests for securing a system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the legal form of hacking based on which jobs are provided in IT industries and firms?
((OPTION_A)) THIS IS MANDATORY OPTION	Cracking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Non ethical Hacking
((OPTION_C)) This is optional	Ethical hacking
((OPTION_D))	Hactivism

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Ethical Hacking is an ethical form of hacking done by white-hat hackers for performing penetration tests and identifying potential threats in any organizations and firms.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	They are nefarious hackers, and their main motive is to gain financial profit by doing cyber crimes. Who are "they" referred to here?
((OPTION_A)) THIS IS MANDATORY OPTION	Gray Hat Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Hactivists
((OPTION_D))	Black Hat Hackers

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Black Hat hackers also termed as 'crackers' and are a major type of cyber criminals who take unauthorized access in user's account or system and steal sensitive data or inject malware into the system for their profit or to harm the organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are the combination of both white as well as black hat hackers.
((OPTION_A)) THIS IS MANDATORY OPTION	Grey Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Green Hat hackers
((OPTION_C)) This is optional	Blue Hat Hackers

((OPTION_D)) This is optional	Red Hat Hacker
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Grey Hat Hackers have a blending character of both ethical as well as un-ethical hacker. They hack other's systems for fun but do not harm the system, exploits bugs and vulnerabilities in network without the knowledge of the admin or the owner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The amateur or newbie in the field of hacking who don't have many skills about coding and in-depth working of security and hacking tools are called _____
((OPTION_A)) THIS IS MANDATORY OPTION	Sponsored Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hactivists
((OPTION_C))	Script Kiddies

This is optional	
((OPTION_D))	Whistle Blowers
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Script Kiddies are new to hacking and at the same time do not have many interests in developing coding skills or find bugs of their own in systems; rather they prefer downloading of available tools (developed by elite hackers) and use them to break any system or network. They just try to gain attention of their friend circles.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suicide Hackers are those _____
((OPTION_A)) THIS IS MANDATORY OPTION	who break a system for some specific purpose with or without keeping in mind that they may suffer long term imprisonment due to their malicious activity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	individuals with no knowledge of codes but an expert in using hacking tools

((OPTION_C)) This is optional	who know the consequences of their hacking activities and hence try to prevent them by erasing their digital footprints
((OPTION_D)) This is optional	who are employed in an organization to do malicious activities on other firms
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Suicide hackers are those who break into any network or system with or without knowing the consequences of the cyber crime and its penalty. There are some suicide hackers who intentionally do crimes and get caught to bring their names in the headlines.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Criminal minded individuals who work for terrorist organizations and steal information of nations and other secret intelligence are _____
((OPTION_A)) THIS IS MANDATORY OPTION	State sponsored hackers
((OPTION_B)) THIS IS ALSO MANDATORY	Blue Hat Hackers

OPTION	
((OPTION_C)) This is optional	Cyber Terrorists
((OPTION_D)) This is optional	Red Hat Hackers
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Cyber Terrorists are very expert programmers and cyber criminals who hide themselves while doing malicious activities over the internet and they are smart enough to hide themselves or their tracks of action. They are hired for gaining unauthorised access to nation's data centres or break into the network of intelligence agencies.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are those individuals who maintain and handles IT security in any firm or organization.
((OPTION_A)) THIS IS MANDATORY OPTION	IT Security Engineer
((OPTION_B))	Cyber Security Interns

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Software Security Specialist
((OPTION_D)) This is optional	Security Auditor
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is an intermediary level of position of an individual in an organization or firm who builds and preserves different systems and its associated security tools of the firm of organization to which he/she belongs.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Role of security auditor is to _____
((OPTION_A)) THIS IS MANDATORY OPTION	secure the network

((OPTION_B)) THIS IS ALSO MANDATORY OPTION	probe for safety and security of organization's security components and systems
((OPTION_C)) This is optional	detects and prevents cyber attacks and threats to organization
((OPTION_D)) This is optional	does penetration testing on different web applications
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Security auditors are those who conduct auditing of various computer and network systems on an organization or company and reports the safety and security issues as well as helps in suggesting improvements or enhancements in any particular system that is threat prone.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are senior level corporate employees who have the role and responsibilities of creating and designing secured network or security structures.
((OPTION_A)) THIS IS MANDATORY	Ethical Hackers

OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Chief Technical Officer
((OPTION_C)) This is optional	IT Security Engineers
((OPTION_D)) This is optional	Security Architect
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Security architect are those senior grade employees of an organization who are in charge of building, designing, implementing and testing of secured network topologies, protocols as well as secured computers in an organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Governments hired some highly skilled hackers. These types of hackers are termed as _____
((OPTION_A)) THIS IS	Special Hackers

MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Government Hackers
((OPTION_C))  This is optional	Cyber Intelligence Agents
((OPTION_D))  This is optional	Nation / State sponsored hackers
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Nation / State sponsored hackers are specific individuals who are employed or hired by the government of that nation or state and protect the nation from cyber terrorists and other groups or individuals and to reveal their plans, communications and actions.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The full form of Malware is _____
((OPTION_A))	Malfunctioned Software

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Multipurpose Software
((OPTION_C))  This is optional	) Malicious Software
((OPTION_D))  This is optional	Malfunctioning of Security
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Different types of harmful software and programs that can pose threats to a system, network or anything related to cyberspace are termed as Malware. Examples of some common malware are Virus, Trojans, Ransomware, spyware, worms, rootkits etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who deploy Malwares to a system or network?

((OPTION_A)) THIS IS MANDATORY OPTION	Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Criminal organizations, gray hat hackers, Malware developers, Penetration testers
((OPTION_C)) This is optional	) Criminal organizations, Black hat hackers, software developers, cyber-terrorists
((OPTION_D)) This is optional	Criminal organizations, White hat hackers, malware developers, cyber-terrorists
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Criminal-minded organizations, groups and individuals cyber-terrorist groups, Black hat hackers, malware developers etc are those who can deploy malwares to any target system or network in order to deface that system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	_____ is a code injecting method used for attacking the database of a system / website.

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	HTML injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SQL Injection
((OPTION_C)) This is optional	Malicious code injection
((OPTION_D)) This is optional	XML Injection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	SQLi (Structured Query Language Injection) is a popular attack where SQL code is targeted or injected; for breaking the web application having SQL vulnerabilities. This allows the attacker to run malicious code and take access to the database of that server.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN	This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here?

CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	SQL injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	HTML Injection
((OPTION_C)) This is optional	Cross Site Scripting (XSS)
((OPTION_D)) This is optional	Cross Site Request Forgery (XSRF)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	XSS attack can be infused by putting the malicious code (which gets automatically run) in any comment section or feedback section of any webpage (usually a blogging page). This can hamper the reputation of a site and the attacker may place any private data or personal credentials.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cyber-crime
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cyber Attack
((OPTION_C)) This is optional	System hijacking
((OPTION_D)) This is optional	Digital crime
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cyber attack is an umbrella term used to classify different computer & network attacks or activities such as extortion, identity theft, email hacking, digital spying, stealing hardware, mobile hacking and physical security breaching.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a set of conventions & rules set for communicating two or more devices residing in the same network?
((OPTION_A))  THIS IS MANDATORY OPTION	Security policies
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Protocols
((OPTION_C))  This is optional	Wireless network
((OPTION_D))  This is optional	Network algorithms
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Network protocols are designed with mechanisms for identifying devices and make connections between them. In addition, some proper rules are defined as to how data packets will be sent and received.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The field that covers a variety of computer networks, both public and private, that are used in everyday jobs
((OPTION_A)) THIS IS MANDATORY OPTION	Artificial Intelligence
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ML
((OPTION_C)) This is optional	Network Security
((OPTION_D)) This is optional	IT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Network security covers a variety of computer networks, both private and public. Everyday jobs like conducting transactions and communications among business and government agencies etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network Security provides authentication and access control for resources.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is not an objective of network security?
((OPTION_A)) THIS IS MANDATORY OPTION	Identification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	Access control
((OPTION_D)) This is optional	Lock
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The Identification, Authentication and Access control are the objectives of network security. There is no such thing called lock.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is a part of network identification?
((OPTION_A)) THIS IS MANDATORY OPTION	UserID
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Password
((OPTION_C)) This is optional	OTP
((OPTION_D)) This is optional	fingerprint
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The answer is UserID. UserID is a part of identification. UserID can be a combination of username, user student number etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of verifying the identity of a user.
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Verification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	It is called an authentication. It is typically based on passwords, smart card, fingerprint, etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security features that control that can access resources in the OS
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Access control
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Access control refers to the security features. Applications call access control to provide resources

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm in encryption is called
((OPTION_A)) THIS IS MANDATORY OPTION	Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Procedure
((OPTION_C)) This is optional	Cipher
((OPTION_D)) This is optional	Module
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	An algorithm used in encryption is referred to as a cipher. cipher is an algorithm for performing encryption or decryption

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The information that gets transformed in encryption is
((OPTION_A)) THIS IS MANDATORY OPTION	Plain text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Parallel text
((OPTION_C)) This is optional	Encrypted text
((OPTION_D)) This is optional	Decrypted text
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The text that gets transformed is called plain text. The algorithm used is called cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The type of threats on the security of a computer system or network are..... i) Interruption ii) Interception iii) Modification iv) Creation v) Fabrication
((OPTION_A)) THIS IS MANDATORY OPTION	i, ii, iii and iv only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii, iii, iv and v only
((OPTION_C)) This is optional	i, ii, iii and v only
((OPTION_D)) This is optional	All i, ii, iii, iv and v
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is computer threat?
((OPTION_A))  THIS IS MANDATORY OPTION	Phishing
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Soliciting
((OPTION_C))  This is optional	DoS attack
((OPTION_D))  This is optional	stalking
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a term used in cryptography that refers to a message before encryption or after decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PLAIN TEXT
((OPTION_C)) This is optional	Original text
((OPTION_D)) This is optional	Plain script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ is encrypted text
((OPTION_A)) THIS IS MANDATORY OPTION	cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cipher script
((OPTION_C)) This is optional	secret text
((OPTION_D)) This is optional	secret script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An _____ along with a key is used in the encryption
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption algorithm
((OPTION_C)) This is optional	encryption algorithm
((OPTION_D)) This is optional	plain text algorithm
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that sensitive information are accessed only by an authorized person and kept away from those not authorized to possess them.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Cryptography
((OPTION_D)) This is optional	Integrity
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information are in a format that is true and correct to its original purposes.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	integrity
((OPTION_D)) This is optional	cryptography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information and resources are available to those who need them.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Availability</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Confidentiality</b>
((OPTION_C)) This is optional	<b>Cryptography</b>
((OPTION_D)) This is optional	<b>Integrity</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of identifying an individual, usually based on a username and password.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither authentication nor authorization</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of giving individuals access to system objects based on their identity.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither congestion control nor quality of service</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	when someone gains access to a server, website, or other sensitive data using someone else's account details called as
((OPTION_A)) THIS IS MANDATORY OPTION	Authorized access
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Access control
((OPTION_C)) This is optional	Unauthorized access
((OPTION_D)) This is optional	access
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Person who tries and exploits a computer system for a reason which can be money, a social cause, fun etc.called as
((OPTION_A)) THIS IS MANDATORY OPTION	Thief
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	hacker
((OPTION_C)) This is optional	attacker
((OPTION_D)) This is optional	criminal
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is an action or event that might compromise the security.
((OPTION_A))  THIS IS MANDATORY OPTION	Threat
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C))  This is optional	Protect
((OPTION_D))  This is optional	attack
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a weakness, a design problem or implementation error in a system that can lead to an unexpected and undesirable event regarding security system
((OPTION_A)) THIS IS MANDATORY OPTION	threat
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C)) This is optional	Attack
((OPTION_D)) This is optional	Protection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a software that operates on different OS which is used to prevent from malicious software.
((OPTION_A)) THIS IS MANDATORY OPTION	Anti virus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	virus
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	risk
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a technique that a hacker uses to stole data by a person for different purposes by psychological manipulation combined with social scenes.
((OPTION_A)) THIS IS MANDATORY OPTION	Social Engineering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IT engineering
((OPTION_C)) This is optional	Psychology
((OPTION_D)) This is optional	Social engineering
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is a software or hardware which is used to filter network traffic based on rules.
((OPTION_A)) THIS IS MANDATORY OPTION	antivirus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firewall
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	keylogger
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not Basic Functions of Antivirus Engines
((OPTION_A)) THIS IS MANDATORY OPTION	Scanning
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity Checking
((OPTION_C)) This is optional	Interception
((OPTION_D)) This is optional	Evesdropping
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is name of antivirus
((OPTION_A))  THIS IS MANDATORY OPTION	AVG
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	PAN
((OPTION_C))  This is optional	SACK
((OPTION_D))  This is optional	FIREP
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hacking tools that can be found very easily by everyone just by googling and they are endless.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Potential Losses due to Security Attacks doesn't involve _____
((OPTION_A)) THIS IS MANDATORY OPTION	Losing your data
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Bad usage of your computer resources
((OPTION_C)) This is optional	Reputation gain
((OPTION_D)) This is optional	Identity theft
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Reputation loss is part of it and not gain

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not malware category?
((OPTION_A))  THIS IS MANDATORY OPTION	Worms
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Viruses
((OPTION_C))  This is optional	Trojans
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	All are malware categories

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ encrypts all your data when your computer gets infected and the second is to roll back the data at a specific time you want.
((OPTION_A)) THIS IS MANDATORY OPTION	ransomware
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firmware
((OPTION_C)) This is optional	middleware
((OPTION_D)) This is optional	Cyber ware
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	this network is created between two secure network devices like two firewalls.
((OPTION_A)) THIS IS MANDATORY OPTION	LAN
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAN
((OPTION_C)) This is optional	VPN
((OPTION_D)) This is optional	WAN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Virtual private network

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Name of the attack when integrity is compromised is called as _____
((OPTION_A))  THIS IS MANDATORY OPTION	Fabrication
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	interception
((OPTION_C))  This is optional	Interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack made on confidentiality is __
((OPTION_A))  THIS IS MANDATORY OPTION	interception
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C))  This is optional	interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	an attack on availability such as a denial of service attack (or DOS)
((OPTION_A))  THIS IS MANDATORY OPTION	Interruption
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Interception
((OPTION_C))  This is optional	fabrication
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An unauthorized party inserts counterfeit objects into the system and basically attacks the authenticity of the system.
((OPTION_A)) THIS IS MANDATORY OPTION	modification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	interruption
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack in which a network service is made degraded or unavailable for legitimate use
((OPTION_A)) THIS IS MANDATORY OPTION	Interruption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is assurance that someone cannot deny something.
((OPTION_A))  THIS IS MANDATORY OPTION	availability
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	confidentiality
((OPTION_C))  This is optional	Access control
((OPTION_D))  This is optional	Non-repudiation
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the purpose of a Denial of Service attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Exploit a weakness in the TCP/IP stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	To execute a Trojan on a system
((OPTION_C))  This is optional	To overload a system so it is no longer operational
((OPTION_D))  This is optional	To shutdown services by turning them off
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	DoS attacks force systems to stop responding by overloading the processing of the system

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What are some of the most common vulnerabilities that exist in a network or system?
((OPTION_A)) THIS IS MANDATORY OPTION	Changing manufacturer, or recommended, settings of a newly installed application.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additional unused features on commercial software packages
((OPTION_C)) This is optional	Utilizing open source application code
((OPTION_D)) This is optional	Balancing security concerns with functionality and ease of use of a system.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Linux is an open source code and considered to have greater security than the commercial Windows environment

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Sniffing is used to perform _____ fingerprinting
((OPTION_A))  THIS IS MANDATORY OPTION	Passive stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active stack
((OPTION_C))  This is optional	Passive banner grabbing
((OPTION_D))  This is optional	Scanned
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Passive stack fingerprinting uses sniffing technologies instead of scanning

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a principle of data security?
((OPTION_A)) THIS IS MANDATORY OPTION	Data Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following attacks is a passive attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Masquerade
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Modification of message
((OPTION_C))  This is optional	Denial of service
((OPTION_D))  This is optional	Traffic analysis
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	In a passive attack, the attacker does not modify any part of the data. His attempt is only to obtain the information and not to modify it. From the mentioned options, this happens only in Traffic analysis in which the attacker monitors the pattern of transmission. The rest other options are examples of active attacks.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options correctly defines the Brute force attack?
((OPTION_A)) THIS IS MANDATORY OPTION	Brutally forcing the user to share the useful information like pins and passwords.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Trying every possible key to decrypt the message.
((OPTION_C)) This is optional	One entity pretends to be some other entity
((OPTION_D)) This is optional	The message or information is modified before sending it to the receiver.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"A key is a string of bits used by a cryptographic algorithm to transform plain text into ciphertext." Which of the following is capable of becoming a key in a cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	Integer value
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Square matrix
((OPTION_C)) This is optional	An array of characters
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	measures taken by any enterprise or organisation to secure its computer network and data using both hardware and software systems is called as
((OPTION_A)) THIS IS MANDATORY OPTION	Network security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Information security
((OPTION_C)) This is optional	Cyber security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	phishing and pre-texting is part of _____
((OPTION_A)) THIS IS MANDATORY OPTION	<b>NETWORK SECURITY</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>CYBER SECURITY</b>
((OPTION_C)) This is optional	Internet security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures to protect the transit data only.
((OPTION_A)) THIS IS MANDATORY OPTION	NETWORK SECURITY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet security
((OPTION_C)) This is optional	Information security
((OPTION_D)) This is optional	Cyber security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is danger for <b>Integrity</b> as well as <b>availability</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is danger for <b>Confidentiality</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ attack attention is on detection.
((OPTION_A))  THIS IS MANDATORY OPTION	Passive attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active Attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ attack attention is on prevention.
((OPTION_A))  THIS IS MANDATORY OPTION	Active attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Due to ___ attack system is always damaged.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	Both active and passive
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	due to _____ attack, there is no any harm to the system.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack is tough to restrict from entering systems or networks.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Attack is easy to prohibited in comparison to _____ attack.
((OPTION_A))  THIS IS MANDATORY OPTION	Active,passive
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive,active
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not active attack
((OPTION_A)) THIS IS MANDATORY OPTION	Denial of service (DoS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	replay
((OPTION_C)) This is optional	Trojans
((OPTION_D)) This is optional	traffic analysis
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In __ <b>attack</b> , an attacker tries to modify the content of the messages.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ <b>attack</b> , an attacker observes the messages, copy them and may use them for malicious purposes
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is state of being free from potential threats or dangers
((OPTION_A)) THIS IS MANDATORY OPTION	privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	freedom
((OPTION_C)) This is optional	security
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ refers to the state of being free from unwanted attention.
((OPTION_A)) THIS IS MANDATORY OPTION	Freedom
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Privacy
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ can be achieved without _____ but _____ cannot be achieved without _____.
((OPTION_A)) THIS IS MANDATORY OPTION	Security,privacy,privacy security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy,security,security,privacy
((OPTION_C)) This is optional	Security,privacy,privacy,privacy
((OPTION_D)) This is optional	Security,security,privacy,security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program refers to a set of protocols and regulations set in place to protect all the confidential information assets and resources that an organization collects and owns.
((OPTION_A)) THIS IS MANDATORY OPTION	Privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program focuses on protecting only personal information such as log in credentials, passwords, etc.
((OPTION_A)) THIS IS MANDATORY OPTION	Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following Algorithms does not belong to symmetric encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	3DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	RC5
((OPTION_D)) This is optional	IDEA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Assymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?
((OPTION_A)) THIS IS MANDATORY OPTION	Not true, the message can also be decrypted with the Public Key.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A so called "one way function with back door" is applied for the encryption
((OPTION_C)) This is optional	The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.
((OPTION_D)) This is optional	The encrypted message contains the function for decryption which identifies the Private Key.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	An one-way function is a function which a computer can calculate quickly, but whose reversal would last months or years. An one-way function with back door can be reversed with the help of a couple of additional information (the back door), but scarcely

	without this information. The information for the back door is contained in the private Key.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the largest disadvantage of the symmetric Encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	More complex and therefore more time-consuming calculations.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Problem of the secure transmission of the Secret Key
((OPTION_C)) This is optional	Less secure encryption function.
((OPTION_D)) This is optional	Isn't used any more
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION))	As there is only one key in the symmetrical encryption, this must

)) This is also optional	be known by both sender and recipient and this key is sufficient to decrypt the secret message. Therefore it must be exchanged between sender and receiver in such a manner that an unauthorized person can in no case take possession of it.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the principle of the encryption using a key?
((OPTION_A)) THIS IS MANDATORY OPTION	The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	The key contains the secret function for encryption including parameters. Only a password can activate the key.
((OPTION_C)) This is optional	All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.
((OPTION_D)) This is optional	The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	C

E	
((EXPLANATION)) This is also optional	The encoding of a message is calculated by an algorithm. If always the same algorithm would be used, it would be easy to crack intercepted messages. However, it isn't possible to invent a new algorithm whenever the old one was cracked, therefor the possibility to parameterize algorithms is needed and this is the assignment of the key. All algorithms must be public, only the keys are secret (principle of Kerckhoff, Dutch cryptographer during 19th century).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If the sender and receiver use different keys, the system is referred to as conventional cipher system
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Such a system is called asymmetric, two-key, or public-key cipher system

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Use Caesar's Cipher to decipher the following HQFUBSWHG WHAW
((OPTION_A)) THIS IS MANDATORY OPTION	ABANDONED LOCK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ENCRYPTED TEXT
((OPTION_C)) This is optional	ABANDONED TEXT
((OPTION_D)) This is optional	ENCRYPTED LOCK
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher uses $C = (p+3) \text{ mod } 26$ to encrypt.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Caesar Cipher is an example of
((OPTION_A)) THIS IS MANDATORY OPTION	Poly-alphabetic Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Mono-alphabetic Cipher
((OPTION_C)) This is optional	Multi-alphabetic Cipher
((OPTION_D)) This is optional	Bi-alphabetic Cipher
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher is an example of Mono-alphabetic cipher, as single alphabets are encrypted or decrypted at a time.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Monoalphabetic ciphers are easier to break because they reflect the frequency of the original alphabet.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis
((OPTION_A)) THIS IS MANDATORY OPTION	Random Polyalphabetic, Plaintext, Playfair
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Random Polyalphabetic, Playfair, Vignere
((OPTION_C)) This is optional	Random Polyalphabetic, Vignere, Playfair, Plaintext
((OPTION_D)) This is optional	Random Polyalphabetic, Plaintext, Beaufort, Playfair
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Random Polyalphabetic is the most resistant to frequency analysis, followed by Vignere, Playfair and then Plaintext.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-
((OPTION_A)) THIS IS MANDATORY OPTION	abqdnnewuwjphfvrrtrfznsdokvl
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	abqdmwwuwjphfvyyrfznydokvl
((OPTION_C)) This is optional	tbqyrvmwuwjphfvyyrfznydokvl
((OPTION_D)) This is optional	baiuvmwuwjphfoeiyrzfznydokvl
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	nlazeiiblji
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nlazeiiblji
((OPTION_C)) This is optional	olaaeiiblki
((OPTION_D)) This is optional	mlaaeiibljk
((OPTION_E)) This is optional. If optional keep empty so that	

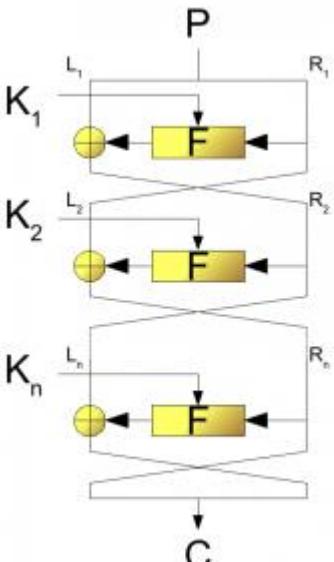
system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m$ (mod 26).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Confusion hides the relationship between the ciphertext and the plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Confusion hides the relationship between the ciphertext and the key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The S-Box is used to provide confusion, as it is dependent on the unknown key.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	false
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The S-Box is used to provide confusion, as it is dependent on the unknown key. The P-Box is fixed, and there is no confusion due to it, but it provides diffusion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This is an example of 
((OPTION_A)) THIS IS MANDATORY OPTION	SP Networks
((OPTION_B)) THIS IS ALSO MANDATORY	Feistel Cipher

OPTION	
((OPTION_C)) This is optional	Hash Algorithm
((OPTION_D)) This is optional	Hill Cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following slows the cryptographic algorithm – 1) Increase in Number of rounds 2) Decrease in Block size 3) Decrease in Key Size 4) Increase in Sub key Generation
((OPTION_A)) THIS IS MANDATORY OPTION	1 and 3
((OPTION_B)) THIS IS ALSO MANDATORY	2 and 3

OPTION	
((OPTION_C)) This is optional	3 and 4
((OPTION_D)) This is optional	2 and 4
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Increase in any of the above 4 leads to slowing of the cipher algorithm i.e. more computational time will be required.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES follows
((OPTION_A)) THIS IS MANDATORY OPTION	Hash Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY	Caesars Cipher

OPTION	
((OPTION_C)) This is optional	Feistel Cipher Structure
((OPTION_D)) This is optional	SP Network
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES Algorithm Cipher System consists of _____ rounds (iterations) each with a round key
((OPTION_A)) THIS IS MANDATORY OPTION	12
((OPTION_B)) THIS IS ALSO MANDATORY	18

OPTION	
((OPTION_C)) This is optional	9
((OPTION_D)) This is optional	16
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The DES Algorithm Cipher System consists of 16 rounds (iterations) each with a round key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES algorithm has a key length of
((OPTION_A)) THIS IS MANDATORY OPTION	128 Bits
((OPTION_B)) THIS IS ALSO MANDATORY	32 Bits

OPTION	
((OPTION_C)) This is optional	64 Bits
((OPTION_D)) This is optional	16 Bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	56 bits are used, the rest 8 bits are parity bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	48, 32
((OPTION_B)) THIS IS ALSO MANDATORY	64,32

OPTION	
((OPTION_C)) This is optional	56, 24
((OPTION_D)) This is optional	32, 32
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____
((OPTION_A)) THIS IS MANDATORY OPTION	Scaling of the existing bits
((OPTION_B)) THIS IS ALSO MANDATORY	Duplication of the existing bits

<b>OPTION</b>	
((OPTION_C)) This is optional	Addition of zeros
((OPTION_D)) This is optional	Addition of ones
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits. This input is first expanded to 48 bits (permutation plus an expansion), that involves duplication of 16 of the bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Initial Permutation table/matrix is of size
((OPTION_A)) THIS IS MANDATORY OPTION	$16 \times 8$
((OPTION_B)) THIS IS ALSO MANDATORY	$12 \times 8$

OPTION	
((OPTION_C)) This is optional	8×8
((OPTION_D)) This is optional	4×8
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	There are 64 bits to permute and this requires a 8×8 matrix.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The number of unique substitution boxes in DES after the 48 bit XOR operation are
((OPTION_A)) THIS IS MANDATORY OPTION	8
((OPTION_B)) THIS IS ALSO MANDATORY	4

OPTION	
((OPTION_C)) This is optional	6
((OPTION_D)) This is optional	12
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The substitution consists of a set of 8 S-boxes, each of which accepts 6 bits as input and produces 4 bits as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During decryption, we use the Inverse Initial Permutation (IP-1) before the IP.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	IP-1 is the first step and the last step is IP during decryption.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A preferable cryptographic algorithm should have a good avalanche effect.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Thus statement is true as a change in one bit of the plaintext or one bit of the key should produce a change in many bits of the ciphertext. This is referred to as the avalanche effect.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the size(in bits) of the key in the SDES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	24
((OPTION_B)) THIS IS ALSO MANDATORY	16

OPTION	
((OPTION_C)) This is optional	20
((OPTION_D)) This is optional	10
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	The size of the key in the SDES algorithm is 10 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	GCD(a,b) is the same as GCD( a , b ).
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	This is true. $\gcd(60,24) = \gcd(60,-24) = 12$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 1160718174 and 316258250 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	882
((OPTION_B)) THIS IS ALSO MANDATORY	770

OPTION	
((OPTION_C)) This is optional	1078
((OPTION_D)) This is optional	1225
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$\text{GCD}(1160718174, 316258250) = 1078$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 102947526 and 239821932 using Euclidean algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	$\text{GCD}(102947526, 239821932) = 6.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 8376238 and 1921023 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	13
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	17
((OPTION_D)) This is optional	7
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	$\text{GCD}(8376238, 1921023) = 13.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 1234 mod 4321 is
((OPTION_A)) THIS IS MANDATORY OPTION	3239
((OPTION_B)) THIS IS ALSO MANDATORY	3213

OPTION	
((OPTION_C)) This is optional	3242
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The multiplicative Inverse of 1234 mod 4321 is 3239.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 550 mod 1769 is
((OPTION_A)) THIS IS MANDATORY OPTION	434
((OPTION_B)) THIS IS ALSO MANDATORY	224

OPTION	
((OPTION_C)) This is optional	550
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The multiplicative Inverse of 550 mod 1769 is 550.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p><b>You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,</b></p> $A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$ <p><b>Is the given matrix 'A', a valid key to be used for encryption?</b></p>
((OPTION_A)) THIS IS MANDATORY OPTION	Yes
((OPTION_B))	No

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Can't be determined
((OPTION_D)) This is optional	Data insufficient
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist.</p> <p>Here, in this case,</p> $  A   = 0$ <p>Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the <a href="#">Hill cipher</a>.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	The input text is divided into two parts: one being left half and another one being right half.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Swapping of the left and right halves are performed after each round.
((OPTION_C)) This is optional	The plain text is converted into a matrix form first
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Among the following given options, chose the strongest encryption technique

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	DES ( Data Encryption Standard))
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Double DES
((OPTION_C)) This is optional	Triple DES
((OPTION_D)) This is optional	AES (Advance Encryption Standard)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	<p><b>Consider the following steps,</b></p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift Rows</li> </ul>

IMAGES ALSO	<p>iii. Mix columns iv. Add round key</p> <p><b>The above steps are performed in each round of which of the following ciphers?</b></p>
((OPTION_A))  THIS IS MANDATORY OPTION	Rail fence cipher
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data Encryption Standard (DES)
((OPTION_C))  This is optional	Advance Encryption Standard (AES)
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ algorithm transforms ciphertext to plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ cipher replaces one character with another character.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ cipher reorders the plaintext characters to create a ciphertext.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the receiver uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either a or b
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is a(n) _____ method adopted by the U.S. government.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	either (a) or (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are _____ ciphers.
((OPTION_A)) THIS IS MANDATORY OPTION	block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	stream
((OPTION_C)) This is optional	field
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ cipher, the same key is used by both the sender and receiver.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ciphers can be categorized into two broad categories: monoalphabetic and polyalphabetic.
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the sender uses the_____key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a(n) _____ cipher, a pair of keys is used.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	2
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES uses a _____ bit block size and a key size of _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	128; 128 or 256
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64; 128 or 192
((OPTION_C)) This is optional	256; 128, 192, or 256
((OPTION_D)) This is optional	128; 128, 192, or 256
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	It uses a 128-bit block size and a key size of 128, 192, or 256 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Like DES, AES also uses Feistel Structure.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES does not use a Feistel structure. Instead, each full round consists of four separate functions: -byte substitution -Permutation -arithmetic operations over a finite field, and -XOR with a key.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The $4 \times 4$ byte matrices in the AES algorithm are called
((OPTION_A)) THIS IS MANDATORY OPTION	States
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Words
((OPTION_C)) This is optional	Transitions
((OPTION_D)) This is optional	Permutations
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is a type of substitution cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	poly alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition cipher
((OPTION_C)) This is optional	Columnar cipher
((OPTION_D)) This is optional	Rail fence cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In substitution cipher the plain text is replaced by cipher text according to a fixed rule. There are two types of substitution cipher- Mono alphabetic and Poly alphabetic cipher.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following correctly defines poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	a substitution based cipher which uses multiple substitution at different positions
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a substitution based cipher which uses fixed substitution over entire message
((OPTION_C)) This is optional	a transposition based cipher which uses multiple substitution at different positions
((OPTION_D)) This is optional	A transposition based cipher which uses fixed substitution over entire message
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Poly alphabetic cipher is a type of substitution cipher. It uses multiple substitution at different positions in order to cipher the plain text.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a type of poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Rotor cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hill cipher
((OPTION_C)) This is optional	One time pad cipher
((OPTION_D)) This is optional	Affine cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	In poly alphabetic cipher each symbol of plain text is replaced by a different cipher text regardless of its occurrence. Out of the given options, only affine cipher is not a poly alphabetic cipher.

((MARKS)) QUESTION IS OF	2
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	We are provided the plain text "SUN". You need to convert the given plain text into ciphertext under the Ceasar cipher encryption technique. Which of the following options is the correct ciphertext for the given text if the key is 2?
((OPTION_A)) THIS IS MANDATORY OPTION	UWP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NUS
((OPTION_C)) This is optional	WUP
((OPTION_D)) This is optional	QSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>In the Caesar cipher technique, the encryption is performed as follows,</p> $E(P, K) = (P + K) \text{ mod } 26$ <p>Therefore,</p> $E(S, 2) = (18 + 2) \text{ mod } 26 = 20 = U$ $E(U, 2) = (20 + 2) \text{ mod } 26 = 22 = W$ $E(N, 2) = (13 + 2) \text{ mod } 26 = 15 = P$ <p>Hence, the ciphertext is "UWP".</p>

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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following cipher techniques include the involvement of matrix operations in their algorithms of encryption and decryption?
((OPTION_A)) THIS IS MANDATORY OPTION	<u>Hill Cipher</u>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<u>Playfair cipher</u>
((OPTION_C)) This is optional	Both a and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also	The hill cipher includes a square matrix as the key, and in Playfair cipher, we create a 5X5 matrix using the given key string. Hence,

optional	both these ciphers include the use of matrices.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Playfair cipher is an example of _____
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C)) This is optional	transposition cipher
((OPTION_D)) This is optional	additive cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	Playfair cipher is a substitution cipher. It falls under the category of poly alphabetic cipher as it uses multiple substitution at different positions in order to cipher the plain text.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Encryption in Playfair cipher is done using _
((OPTION_A)) THIS IS MANDATORY OPTION	a 5×5 table
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a 13×2 table
((OPTION_C)) This is optional	vigenere table
((OPTION_D)) This is optional	a 6×6 table
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A

((EXPLANATION)) This is also optional	
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the plain text corresponding to cipher text "BPKYFS" if playfair cipher is used with keyword as "SECRET" (assuming j is combined with i)?
((OPTION_A))  THIS IS MANDATORY OPTION	INDIAN
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	WORLD
((OPTION_C))  This is optional	DOLLAR
((OPTION_D))  This is optional	HELLO
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C

((EXPLANATION)) This is also optional	To decrypt the message we follow the reverse procedure. The table is formed in the same manner. Applying this we get the plain text to be "DOLLAR".
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair are identical?
((OPTION_A)) THIS IS MANDATORY OPTION	then that pair is neglected
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a null(or x) is added in between the letters
((OPTION_C)) This is optional	one of the identical letter is replaced by some other letter
((OPTION_D)) This is optional	then both of the letters are replaced by the letter appearing just next in the row
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	In playfair cipher if the letters in a pair are identical then a null is added in between the letters. Any letter can be used as a null as long as that letter is not the one being repeated.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same row?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter at the corner of the row
((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	If the letters in a pair appear in same row then they are replaced by the letters appearing immediately right to them respectively. If the element to be replaced appears at the corner of the row then we wrap around to the left side of that row.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the ciphered text if the string “SANFOUNDRY” is given as input to the code of playfair cipher with keyword as “SECRET” (assuming j is combined with i)?
((OPTION_A)) THIS IS MANDATORY OPTION	ZHQAPNPAFR
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AHQAPNPAFR
((OPTION_C)) This is optional	HAQAPNPAFR
((OPTION_D)) This is optional	QHAAPNPAFR
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	B

E	
((EXPLANATION)) This is also optional	<p>For encrypting the plain text using playfair cipher we use a <math>5 \times 5</math> table that is constructed by using keyword. Then we apply rules for encryption in order to get the ciphered text. Table is given as under-</p> <p>S E C R T</p> <p>A B D F G</p> <p>H I K L M</p> <p>N O P Q U</p> <p>V W X Y Z</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letters at the corner of the row
((OPTION_D))	that pair is neglected

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	If the letters in a pair appear in the same column then they are replaced by the letters appearing immediately below them respectively. If the element to be replaced appears at the corner of the column then we wrap around to the top side of that column.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair does not appear in same row or column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter of the same row at the corner of the rectangle defined by the original pair respectively

((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	If the letters in a pair does not appear in same row or column then they are replaced by the letters of the same row at the corner of the rectangle defined by the original pair respectively. The order of letters should be maintained.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Columnar cipher falls under the category of?
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C))	additive cipher

This is optional	
((OPTION_D))	Transposition cipher
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Columnar cipher is a transposition cipher. It falls under the category of transposition cipher as it encrypts the plain text by rearranging its letters.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following ciphered text would have NOT used transposition cipher for encryption of the plain text “CIPHER”?
((OPTION_A)) THIS IS MANDATORY OPTION	EPIHRC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EHIPCR
((OPTION_C))	DTIPRC

This is optional	
((OPTION_D))	HRIPEC
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	We know that transposition cipher encrypts the plain text by shuffling the letters of the plain text. So out of the given options, only “DTIPRC” does not have the same set of letters as “CIPHER”.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many columns do we need to have in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	4
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	5
((OPTION_C))	6

This is optional	
((OPTION_D))	7
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So in this case it will be equal to 6.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the encrypted text corresponding to plain text “CLASSIFIED” using columnar transposition cipher with a keyword as “GAMES”?
((OPTION_A)) THIS IS MANDATORY OPTION	LFDSIASECI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SECIAISDFL
((OPTION_C))	CILFAISESD

This is optional																					
((OPTION_D))	IFSECIAISD																				
This is optional																					
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CH OICE)) Either A or B or C or D or E	D																				
((EXPLANATION )) This is also optional	<p>For encrypting using columnar cipher we have to arrange the letters of the plain text in a table which has the same number of columns as the letters of the keyword. Then the letters of the keyword are arranged in alphabetical order and we read along each column.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>1</td><td>4</td><td>2</td><td>5</td></tr> <tr><td>G</td><td>A</td><td>M</td><td>E</td><td>S</td></tr> <tr><td>C</td><td>L</td><td>A</td><td>S</td><td>S</td></tr> <tr><td>I</td><td>F</td><td>I</td><td>E</td><td>D</td></tr> </table> <p>So the ciphered text will be “IFSECIAISD”.</p>	3	1	4	2	5	G	A	M	E	S	C	L	A	S	S	I	F	I	E	D
3	1	4	2	5																	
G	A	M	E	S																	
C	L	A	S	S																	
I	F	I	E	D																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many rows will the letters of the plain text occupy in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B))	2

THIS IS ALSO MANDATORY OPTION																					
((OPTION_C)) This is optional	3																				
((OPTION_D)) This is optional	4																				
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CHOICE)) Either A or B or C or D or E	B																				
((EXPLANATION)) This is also optional	<p>Explanation: The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So when we will write the letters of the plain text row wise then there will be 2 rows of plain text in this case. The table is shown below :-</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>S</td> <td>E</td> <td>C</td> <td>R</td> <td>E</td> <td>T</td> </tr> <tr> <td>1</td> <td>S</td> <td>A</td> <td>N</td> <td>F</td> <td>O</td> <td>U</td> </tr> <tr> <td>2</td> <td>N</td> <td>D</td> <td>R</td> <td>Y</td> <td></td> <td></td> </tr> </table>	S	E	C	R	E	T	1	S	A	N	F	O	U	2	N	D	R	Y		
S	E	C	R	E	T																
1	S	A	N	F	O	U															
2	N	D	R	Y																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following statement is not true regarding columnar transposition cipher?
((OPTION_A)) THIS IS	probability of error is high while deciphering

MANDATORY OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	it cannot be combined with other ciphers
((OPTION_C)) This is optional	it is a traditional symmetric cipher
((OPTION_D)) This is optional	it is a weak cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Although columnar transposition cipher is a weak cipher in itself. But it can be combined with other substitution ciphers so as to improve its security. The probability of error remains high while decoding columnar cipher as it is a lengthy process

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is another data hiding technique which can be used in conjunction with cryptography for the extra-secure method of protecting data.
((OPTION_A))	Cryptography

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Steganography
((OPTION_C))  This is optional	Tomography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Steganography is the technique of hiding data in another raw data. Steganography is another data hiding technique which can be used in conjunction with cryptography for an extra-secure method of protecting data.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is hiding of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Steganography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Steganography helps in hiding any form of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ tool permits security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Chorography
((OPTION_D))  This is optional	Steganography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	A steganography tool is a software tool that permits a security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main motive for using steganography is that hackers or other users can hide a secret message behind a _____

((OPTION_A)) THIS IS MANDATORY OPTION	special file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ordinary file
((OPTION_C)) This is optional	program file
((OPTION_D)) This is optional	encrypted file
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	The main motive for using steganography is that hackers or other users can hide a secret message behind ordinary files. Some steganography tools are SSuite Picsel, rSteg etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	People will normally think it as a normal/regular file and your secret message will pass on without any _____

((OPTION_A)) THIS IS MANDATORY OPTION	Suspicion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	cracking
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Steganography techniques help hackers or other users to conceal covert message behind regular files. People will normally think it as a normal/regular file and your secret message will pass on without any suspicion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	By using _____ you can diminish the chance of data leakage

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C)) This is optional	Chorography
((OPTION_D)) This is optional	Steganography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Hackers or other cyber criminals target ordinary files to hide different data or information within another data file. By using steganography, you can diminish the chance of data leakage.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Which of the following is a mode of operation for the Block ciphers in cryptography?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Electronic Code Book (ECB)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher Block Chaining (CBC)
((OPTION_C)) This is optional	Counter (CTR) mode
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	For which of the following should EBC (Electronic Code Book) process not be used for encryption?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	For large block sizes
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	For fixed block sizes
((OPTION_C)) This is optional	For small block sizes
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	It is preferred that the block size in the ECB technique must be greater than 64 bits. If not, the text is padded to make it of the required length. This is due to some particular words and phrases that may be reused again often so that the same repetitive part of ciphertext can emerge as mixed.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	Which of the following is the main disadvantage of the ECB (Electronic Code Book)?

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	It requires large block size
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Padding is done to make the plain text divisible into blocks of fixed size
((OPTION_C)) This is optional	It is prone to cryptanalysis since there is a direct relationship between plain text and cipher text.
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	In <u>ECB</u> , there lies a direct relation between the plain text and the ciphertext. Therefore, it is easy for an outsider to break the encryption logic and steal the data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options is not correct according to the definition of the Cipher Block Chaining (CBC)?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC is a mode of operation for stream ciphers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Initialization vector (IV) is used in CBC in the initial phase.
((OPTION_C)) This is optional	It has better resistive nature towards cryptanalysis than ECB
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<a href="#">CBC</a> which stands for Cipher Block chaining is a mode of operation for block ciphers and not for stream ciphers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following modes of operations can be followed for both stream ciphers as well as block ciphers?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC (Cipher Block Chaining)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECB (Electronic Code Book)
((OPTION_C)) This is optional	CFB (Cipher text Feed Back)
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	<b>CFB</b> is primarily a mode to derive some characteristics of a stream cipher from a block cipher on the cryptography in cryptoanalysis.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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<p>((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO</p>	<p>All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?</p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift rows</li> <li>iii. Mix columns</li> <li>iv. Add round key</li> </ul>
<p>((OPTION_A)) THIS IS MANDATORY OPTION</p>	<p>i</p>
<p>((OPTION_B)) THIS IS ALSO MANDATORY OPTION</p>	<p>iii</p>
<p>((OPTION_C)) This is optional</p>	<p>All of the mentioned</p>
<p>((OPTION_D)) This is optional</p>	<p>None of the mentioned</p>
<p>((OPTION_E)) This is optional. If optional keep empty so that system will skip this option</p>	
<p>((CORRECT_CHOICE)) Either A or B or C or D or E</p>	<p>B</p>
<p>((EXPLANATION)) This is also optional</p>	<p>In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.</p>

<p>((MARKS))</p>	<p>1</p>
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"The number of rounds in the AES algorithm depends upon the key size being used." Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	128 key size: 10 rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	192 key size: 12 rounds
((OPTION_C)) This is optional	256 key size: 14 rounds
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Avalanche effect
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Completeness
((OPTION_C)) This is optional	Both a. and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For the AES-128 algorithm there are _____ similar rounds and _____ round is different.
((OPTION_A)) THIS IS MANDATORY OPTION	2 pair of 5 similar rounds ; every alternate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	9 ; the last
((OPTION_C)) This is optional	8 ; the first and last
((OPTION_D)) This is optional	10 ; no
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the 4 operations are false for each round in the AES algorithm? i) Substitute Bytes ii) Shift Columns iii) Mix Rows iv) XOR Key
((OPTION_A)) THIS IS MANDATORY OPTION	i) only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii) iii) and iv)
((OPTION_C)) This is optional	ii) and iii)
((OPTION_D)) This is optional	only iv
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES rounds involve substitute bytes, shift rows, mix columns and addition of round key.

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There is an addition of round key before the start of the AES round algorithms.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In AES the final round contains only three transformations, and there is an initial single transformation (Add Round Key) before the first round which can be considered Round 0. Each transformation takes $4 \times 4$ matrixes as input and produces a $4 \times 4$ matrix as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1																
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the Shifted Row transformation for the matrix bellow?  <table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_A))  THIS IS MANDATORY OPTION	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	<table border="1"> <tr> <td>72</td><td>2B</td><td>D7</td><td>FE</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>63</td><td>AD</td><td>01</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	72	2B	D7	FE	A4	6B	6B	77	63	AD	01	F0	30	D7	AF	FE
72	2B	D7	FE														
A4	6B	6B	77														
63	AD	01	F0														
30	D7	AF	FE														
((OPTION_C))  This is optional	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>77</td><td>A4</td><td>6B</td><td>6B</td></tr> <tr> <td>F0</td><td>63</td><td>AD</td><td>01</td></tr> <tr> <td>FE</td><td>30</td><td>D7</td><td>AF</td></tr> </table>	FE	72	2B	D7	77	A4	6B	6B	F0	63	AD	01	FE	30	D7	AF
FE	72	2B	D7														
77	A4	6B	6B														
F0	63	AD	01														
FE	30	D7	AF														
((OPTION_D))  This is optional	<table border="1"> <tr> <td>D7</td><td>FE</td><td>72</td><td>2B</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>01</td><td>AD</td><td>63</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	D7	FE	72	2B	A4	6B	6B	77	01	AD	63	F0	30	D7	AF	FE
D7	FE	72	2B														
A4	6B	6B	77														
01	AD	63	F0														
30	D7	AF	FE														

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The Shift Rows transformation consists of: -Not shifting the first row of the state array at all. -Circularly shifting the second row by one byte to the left. -Circularly shifting the third row by two bytes to the left, and -Circularly shifting the last row by three bytes to the left.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not weak key in DES
((OPTION_A)) THIS IS MANDATORY OPTION	0x0101010101010101
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0xEFABFEFEFEFEFEFE
((OPTION_C)) This is optional	0x1F1F1F1F0E0E0E0E
((OPTION_D))	0xFFFFFFFFFFFFFF

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple-DES has _____ keys.
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	2
((OPTION_C)) This is optional	5
((OPTION_D))	4

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a encryption technique which uses two instance of DES on same plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	Double DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripple DES
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack which can be used to break through double DES.
((OPTION_A)) THIS IS MANDATORY OPTION	Brute force
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	meet-in-the middle
((OPTION_C)) This is optional	Timing
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple DES involve __
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption, Decryption, Decryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption ,Encryption, Encryption
((OPTION_C)) This is optional	Decryption ,Encryption, Decryption
((OPTION_D))	Encryption, Decryption, Encryption

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ involves feeding the successive output blocks from the underlying block cipher back to it
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	OFB
((OPTION_D))	CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is counter-based version of CFB mode without the feedback
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	counter
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below mode is independent of previous output
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	CFB
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Errors get propagated in all modes except ___and ___
((OPTION_A)) THIS IS MANDATORY OPTION	ECB,COUNTER
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC,COUNTER
((OPTION_C)) This is optional	CFB,COUNTER
((OPTION_D))	OFB,CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Patterns are not preserved in ___ mode
((OPTION_A)) THIS IS MANDATORY OPTION	CBC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CFB
((OPTION_C)) This is optional	Both CBC and CFB
((OPTION_D))	ECB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A small change in plaintext results in the very great change in the cipher text indicates which characteristic
((OPTION_A)) THIS IS MANDATORY OPTION	completeness
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Strong key
((OPTION_C)) This is optional	Avalanche effect
((OPTION_D))	All of the above

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ ciphers, the plaintext is processed one bit at a time i.e. one bit of plaintext is taken, and a series of operations is performed on it to generate one bit of cipher text.
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	More number of _____ provide more secure system in feistel cipher.
((OPTION_A)) THIS IS MANDATORY OPTION	rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	keys
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	Function
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The number of rounds used in a Feistel Cipher depends on desired security from the system. More number of rounds provide more secure system. But at the same time, more rounds mean the inefficient slow encryption and decryption processes..

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem _____ keys are used for encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different
((OPTION_C)) This is optional	Encryption Keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	In conventional cryptosystem, same keys are used for encryption and decryption where as in public key cryptosystem different keys are used.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem which is kept as public?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption keys
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption keys
((OPTION_C)) This is optional	Encryption & Decryption keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	In public key cryptosystem, the encryption keys are kept as public where as decryption keys are kept as secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptosystem uses same key for both encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which should be kept as a secret in public key cryptosystem?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption key
((OPTION_C)) This is optional	Encryption & Decryption key
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	In public key cryptosystem, Encryption is done using public key . decryption key needs to be kept as a secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Euler's totient function is determined by
((OPTION_A)) THIS IS MANDATORY OPTION	$pq$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(p-1)(q-1)$
((OPTION_C)) This is optional	$(p+1)(q+1)$
((OPTION_D)) This is optional	$p/q$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The Euler's totient function is determined by $(p-1)(q-1)$ , where p and q are kept hidden.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'?
((OPTION_A))  THIS IS MANDATORY OPTION	p and q should be divisible by $\Phi(n)$
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	p and q should be co-prime
((OPTION_C))  This is optional	p and q should be prime
((OPTION_D))  This is optional	p/q should give no remainder
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	'p' and 'q' should have large random values which are both prime numbers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.
((OPTION_A)) THIS IS MANDATORY OPTION	(p)/(q)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	(p)(q)
((OPTION_C)) This is optional	(p-1)(q-1)
((OPTION_D)) This is optional	(p+1)(q+1)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$\Phi(n) = (p-1)(q-1).$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	$\gcd(e, \Phi(n))=1$ ; and $1 < e < \Phi(n)$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $e=17$ . Apply RSA algorithm where message=5 and find the cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	C=80
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	C=92
((OPTION_C)) This is optional	C=56
((OPTION_D)) This is optional	C=23
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 209.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	54
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	43
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	24
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$n = pq = 11 \times 19 = 209$ . $C=M^e \text{ mod } n ; C=5^{17} \text{ mod } 209 ; C = 80 \text{ mod } 209$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	$n = 35; e = 5; C = 10$ . What is the plaintext (use RSA) ?
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	7
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Use RSA system to decrypt and get PT = 5.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where PT message=88 and thus find the CT.
((OPTION_A)) THIS IS MANDATORY OPTION	23
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64
((OPTION_C)) This is optional	11
((OPTION_D)) This is optional	54
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=88^7 \text{ mod } 187 ; C = 11 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where Cipher message=11 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	88
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	122
((OPTION_C)) This is optional	143
((OPTION_D)) This is optional	111
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=11^{23} \text{ mod } 187 ; C = 88 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an RSA system the public key of a given user is $e = 31$ , $n = 3599$ . What is the private key of this user?
((OPTION_A))  THIS IS MANDATORY OPTION	3031
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	2412
((OPTION_C))  This is optional	2432
((OPTION_D))  This is optional	1023
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	By trial and error, we determine that $p = 59$ and $q = 61$ . Hence $f(n) = 58 \times 60 = 3480$ . Then, using the extended Euclidean algorithm, we find that the multiplicative inverse of 31 modulo $f(n)$ is 3031

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compute private key (d, p, q) given public key (e=23, n=233 ´ 241=56,153).
((OPTION_A)) THIS IS MANDATORY OPTION	35212
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	12543
((OPTION_C)) This is optional	19367
((OPTION_D)) This is optional	32432
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Since n=233 ´ 241=56,153, p=233 and q=241 $f(n) = (p - 1)(q - 1) = 55,680$ Using Extended Euclidean algorithm, we obtain $d = 23^{-1} \text{ mod } 55680 = 19,367.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a RSA cryptosystem a particular A uses two prime numbers $p = 13$ and $q = 17$ to generate her public and private keys. If the public key of A is 35. Then the private key of A is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	13
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	17
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In an RSA cryptosystem, for public key: $\text{GCD}(\phi(n), e) = 1$ And, for private key:

	$(e * d) \bmod \phi(n) = 1$ Where, $\phi(n) = (p - 1)*(q - 1) = (13 - 1)(17 - 1) = 12 * 16 = 192$ Such that $1 < e, d < \phi(n)$ Therefore, the private key is: $(35 * d) \bmod \phi(n) = 1$ $d = 11$
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA public key cryptosystem, which one of the following numbers will always be largest?
((OPTION_A)) THIS IS MANDATORY OPTION	E
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	N
((OPTION_C)) This is optional	P
((OPTION_D)) This is optional	Q
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The number n is generated as the product of the two large prime numbers p and q. Therefore, n must always be greater than both p and q. Furthermore, it is an algorithm constraint that e must be chosen such that e is smaller than n. Therefore, in RSA cryptography n is always the largest of the four variables shown in the options to this question.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If Richard wants to send an encrypted message to Sue using a public key cryptosystem, which key does he use to encrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Richard must encrypt the message using Sue's public key so that Sue can decrypt it using her private key. If he encrypted the message with his own public key, the recipient would need to know Richard's private key to decrypt the message. If he encrypted it with his own private key, any user could decrypt the message using Richard's freely available public key. Richard could not encrypt the message using Sue's private key because he does not have access to it. If he did, any user could decrypt it using Sue's freely available public key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Acme Widgets currently uses a 1,024-bit RSA encryption standard companywide. The company plans to convert from RSA to an elliptic curve cryptosystem. If it wishes to maintain the same cryptographic strength, what ECC key length should it use?
((OPTION_A)) THIS IS MANDATORY OPTION	160 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	512 bits
((OPTION_C)) This is optional	1,024 bits
((OPTION_D)) This is optional	2,048 bits

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The elliptic curve cryptosystem requires significantly shorter keys to achieve encryption that would be the same strength as encryption achieved with the RSA encryption algorithm. A 1,024-bit RSA key is cryptographically equivalent to a 160-bit elliptic curve cryptosystem key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Richard received an encrypted message sent to him from Sue. Which key should he use to decrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sue would have encrypted the message using Richard's public key. Therefore, Richard needs to use the complementary key in the key pair, his private key, to decrypt the message.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One commonly used public-key cryptography method is the _____ algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the objective of Diffie-Hellman key exchange?
((OPTION_A)) THIS IS MANDATORY OPTION	To protect encrypted data from man-in-the-middle attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	To perform mutual authentication on both sides
((OPTION_C)) This is optional	To prove to another party that one holds a secret key without revealing it
((OPTION_D)) This is optional	To establish a shared secret key on both sides

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The security of RSA encryption relies on which assumption?
((OPTION_A)) THIS IS MANDATORY OPTION	It is computationally infeasible to compute a GCD of two large numbers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is computationally infeasible to factor a large number.
((OPTION_C)) This is optional	It is computationally infeasible to test whether a large number is prime.
((OPTION_D)) This is optional	It is computationally infeasible to compute a square modulo n.

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is asymmetric cryptography?
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	Both ECC and RSA
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below requires less hardware capacity because of less key size
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Diffie Hellman is _____
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption algorithm
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	D-H is key exchange algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Timing attack on RSA can be avoided by __
((OPTION_A)) THIS IS MANDATORY OPTION	Padding extra bits in message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Adding delays
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below algorithm is used in cryptocurrency?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AES
((OPTION_C)) This is optional	ECC
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When a hash function is used to provide message authentication, the hash function value is called to as:
((OPTION_A)) THIS IS MANDATORY OPTION	Message Field
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Message Digest
((OPTION_C)) This is optional	Message Score
((OPTION_D)) This is optional	Message Leap

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	We know that the hash function providing message authentication is referred to as message digest in cryptography.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following are used to create a message digest  a. RSA b. SHA-1 c. DES d. MD5
((OPTION_A)) THIS IS MANDATORY OPTION	A&B
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	B&C
((OPTION_C)) This is optional	A&C

((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	They are Message digest algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the output of a cryptographic hash function?
((OPTION_A)) THIS IS MANDATORY OPTION	A variable set of bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A fixed set of bits, derived from one-way mathematical operations
((OPTION_C)) This is optional	An output which may be easily discovered by an adversary

((OPTION_D)) This is optional	Outputs of such functions are of no importance
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest algorithms are primarily used to provide _____
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	inegrity

((OPTION_D)) This is optional	authorization
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a message digest algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IDEA
((OPTION_C)) This is optional	MD5

((OPTION_D)) This is optional	RSA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the data must arrive at the receiver exactly as sent.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the receiver is ensured that the message is coming from the intended sender, not an imposter.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ function creates a message digest out of a message
((OPTION_A)) THIS IS MANDATORY OPTION	encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	hash

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a trusted third party that assigns a symmetric key to two parties.
((OPTION_A)) THIS IS MANDATORY OPTION	Public directory
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Certificate authority
((OPTION_C)) This is optional	Both

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature provides _____.
((OPTION_A)) THIS IS MANDATORY OPTION	authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nonrepudiation
((OPTION_C)) This is optional	both (a) and (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature needs a(n) _____ system
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a federal or state organization that binds a public key to an entity and issues a certificate.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	means that a sender must not be able to deny sending a message that he sent.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication

((OPTION_D)) This is optional	Nonrepudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is a popular session key creator protocol that requires an authentication server and a ticket-granting server.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The MD5 is a message digest algorithm developed by
((OPTION_A)) THIS IS MANDATORY OPTION	Ron Rivest.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	WhiteField Diffie.
((OPTION_C)) This is optional	Martin Hellman.

((OPTION_D)) This is optional	Diffie-Hellman.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 is quite fast and produces _____ message digests
((OPTION_A)) THIS IS MANDATORY OPTION	512 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1024 bits
((OPTION_C)) This is optional	128 bits

((OPTION_D)) This is optional	64 bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The first step of MD5 is
((OPTION_A)) THIS IS MANDATORY OPTION	add padding bits to original messsge
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	adding append length bits
((OPTION_C)) This is optional	divide the input into 512 bit blocks

((OPTION_D)) This is optional	compression
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the process block divides the 512 bits into _____ sub blocks.
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	24
((OPTION_C)) This is optional	32

((OPTION_D)) This is optional	84
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which financial institutions have a relationship with merchants for processing payment card authorizations and payments?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Acquirer
((OPTION_C)) This is optional	Merchant

((OPTION_D)) This is optional	Dealer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following contains the order information such as which items are being purchased?
((OPTION_A)) THIS IS MANDATORY OPTION	PI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	OI
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Payment information can be encrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	customer's private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	merchant public key
((OPTION_C)) This is optional	one-time session key.

((OPTION_D)) This is optional	customer's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature envelope is decrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	merchant private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	payment's private key
((OPTION_C)) This is optional	payment public key

((OPTION_D)) This is optional	merchant's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ will ensure the merchant and their payment information
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Dual signature

((OPTION_D)) This is optional	Certificate authority
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SET provides an authentication with the help of _____
((OPTION_A)) THIS IS MANDATORY OPTION	dual signature
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	digital certificate
((OPTION_C)) This is optional	payment's public key

((OPTION_D)) This is optional	payment's private key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are very crucial for success of RSA algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	Integers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Prime numbers
((OPTION_C)) This is optional	Negative number

((OPTION_D)) This is optional	Fraction
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ acts as financial institutions who provides a payment card to a card holder
((OPTION_A)) THIS IS MANDATORY OPTION	payment gateway
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	card holder
((OPTION_C)) This is optional	acquirer

((OPTION_D)) This is optional	issuer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	ISSUER means Bank

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who will be responsible for processing the payment from the customer's account to the merchant account?
((OPTION_A)) THIS IS MANDATORY OPTION	Acquirer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Issuer

((OPTION_D)) This is optional	Payment gateway
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cardholder combines the PIMD and OIMD and hashes them together to form
((OPTION_A)) THIS IS MANDATORY OPTION	OPMD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POMD
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which process will ensure that the issues of the credit card is an approved transactions?
((OPTION_A)) THIS IS MANDATORY OPTION	Payment capture
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Payment authorization
((OPTION_C)) This is optional	Purchase request

((OPTION_D)) This is optional	Purchase reply
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is used for hiding the payment information from the merchant.
((OPTION_A)) THIS IS MANDATORY OPTION	SET
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	SHTTP

((OPTION_D)) This is optional	TSP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A __word buffer is used to compute the message digest in MD5
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5

((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	4 WORD A,B,C,D

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the message is <b>padded</b> so that its length is divisible by ____
((OPTION_A)) THIS IS MANDATORY OPTION	32
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	128
((OPTION_C)) This is optional	512

((OPTION_D)) This is optional	1024
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 should meet requirements:
((OPTION_A)) THIS IS MANDATORY OPTION	It is impossible to generate two inputs that cannot produce the same hash function
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is impossible to generate a message having the same hash value
((OPTION_C)) This is optional	Both of the above

((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 takes an input of ___ size and produces an output if a 128-bit hash value
((OPTION_A)) THIS IS MANDATORY OPTION	Any
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Multiple of 512
((OPTION_C)) This is optional	Multiple of 128

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following best describes sniffing?
((OPTION_A)) THIS IS MANDATORY OPTION	Gathering packets to locate IP addresses, in order to initiate a session hijacking attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Analyzing packets in order to locate the sequence number to start a session hijack
((OPTION_C)) This is optional	Monitoring TCP sessions in order to initiate a session-hijacking attack

((OPTION_D)) This is optional	Locating a host susceptible to a session-hijack attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sniffing is usually used to locate the sequence number, which is necessary for a session hijack.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The secret key between members needs to be created as a _____ key when two members contact Kerberos system
((OPTION_A)) THIS IS MANDATORY OPTION	Public
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session
((OPTION_C))	complimentary

This is optional	
((OPTION_D))	None of these
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main components of Kerberos are:
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	database

This is optional	
((OPTION_D))	All of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ performs the initial authentication and ticket for Ticket Granting Service
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	Database

This is optional	
((OPTION_D))	Kerberos
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Authentication Server verifies access right of users in __
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TG server
((OPTION_C))	Database

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ issues the ticket for the Server
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	DB

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is primarily used for _____
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))	confidentiality

This is optional	
((OPTION_D))	authorization
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The KDC encrypts the TGT with a password that only the _____ knows.
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	Server

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Because no one else needs to be able to see the contents.  It's for the server to keep track of the client

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The essence of Kerberos' system is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	One way authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity

((OPTION_C)) This is optional	Mutual authentication
((OPTION_D)) This is optional	Public authentication
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not an element/field of the X.509 certificates?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer Name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Serial Modifier

((OPTION_C)) This is optional	Issuer unique Identifier
((OPTION_D)) This is optional	Signature
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 certificate recommends which cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	DES

((OPTION_C)) This is optional	AES
((OPTION_D)) This is optional	Rabin
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The standard used in digital certificates that defines its structure, fields, and Values is
((OPTION_A)) THIS IS MANDATORY OPTION	Kerberos
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	End to end encryption

((OPTION_C)) This is optional	X.509
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 Certificates includes
((OPTION_A)) THIS IS MANDATORY OPTION	Version
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	signature algorithm identifier

((OPTION_C)) This is optional	period of validity
((OPTION_D)) This is optional	extension fields
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CH OICE)) Either A or B or C or D or E	E
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ defines a framework for the provision of authentication services by the X.500 directory
((OPTION_A)) THIS IS MANDATORY OPTION	X.509
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.508

((OPTION_C)) This is optional	X.505
((OPTION_D)) This is optional	X.609
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature is a mathematical technique used to validate the _____ and _____ of a message, software or digital document
((OPTION_A)) THIS IS MANDATORY OPTION	Authenticity, integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity, confidentiality

((OPTION_C)) This is optional	Integrity,non-repudiation
((OPTION_D)) This is optional	Authenticity,confidentiality
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature involves ____ and ____
((OPTION_A)) THIS IS MANDATORY OPTION	Signature verification ,validation
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Signature creation,verification

((OPTION_C)) This is optional	Signature creation,deletion
((OPTION_D)) This is optional	Signature validation,modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest is computed by applying hash function on the message and then message digest is encrypted using _____ key of sender to form the digital signature.
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Session
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature , Receiver decrypts the digital signature using the _____ key of sender
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Secret
((OPTION_D)) This is optional	Session
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature, The message digest computed by ___ and the message digest (got by decryption on digital signature) need to be ___ for ensuring integrity
((OPTION_A)) THIS IS MANDATORY OPTION	Receiver,same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Receiver,different

((OPTION_C)) This is optional	Sender,same
((OPTION_D)) This is optional	Sender,different
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is like a fingerprint or an attachment to a digital document that ensures its authenticity and integrity.
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Digital signature

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature follows _____
((OPTION_A)) THIS IS MANDATORY OPTION	Digital Signature Standard (DSS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.509 standard format

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In diffie-hellman algorithm, if Alice and Bob wish to communicate with each other, they first agree between them a large prime number n, and ____ g
((OPTION_A)) THIS IS MANDATORY OPTION	Generator
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Small prime number

((OPTION_C)) This is optional	Natural number
((OPTION_D)) This is optional	Factorial
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm if $X_a$ is private key of user then public key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$g^{X_a} \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$n^{X_a} \text{ mod } n$

((OPTION_C)) This is optional	$g^n \bmod p$
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, ____ keys of each other should be known
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session

((OPTION_C)) This is optional	Public
((OPTION_D)) This is optional	No
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm,shared secret key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$(g^a \text{ mod } n)^b \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(g^b \text{ mod } n)^a \text{ mod } n$

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, the resulting shared secret will be the ___ every time
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different

((OPTION_C)) This is optional	Maybe same
((OPTION_D)) This is optional	Can't say
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ the first widely used method of safely developing and exchanging keys over an insecure channel
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSS

((OPTION_C)) This is optional	Diffie Hellman
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suppose that two parties A and B wish to set up a common secret key (D-H key) between themselves using the Diffie Hellman key exchange technique. They agree on 7 as the modulus and 3 as the primitive root. Party A chooses 2 and party B chooses 5 as their respective secrets. Their D-H key is
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4

((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prime value $q = 17$ and primitive root $= 5$ . If Alice's secret key is 4 and Bob's secret key is 6, what is the shared secret key they exchanged?
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	17

((OPTION_C)) This is optional	18
((OPTION_D)) This is optional	19
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each round of MD5 consist of ____ operations
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15

((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	18
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each buffer of MD5 algorithm is ____ bit long
((OPTION_A))  THIS IS MANDATORY OPTION	32
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	64

((OPTION_C)) This is optional	128
((OPTION_D)) This is optional	512
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	RSA is _____ cryptography
((OPTION_A)) THIS IS MANDATORY OPTION	Asymmetric
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Value generated by hash function is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Message digest
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hash

((OPTION_C)) This is optional	MAC
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not service of digital signature
((OPTION_A))  THIS IS MANDATORY OPTION	Authentication to message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data integrity

((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	____ digitally signs this entire information and includes digital signature in the certificate
((OPTION_A)) THIS IS MANDATORY OPTION	CA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	KDC

((OPTION_C)) This is optional	PKI
((OPTION_D)) This is optional	DB
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA ,e is used as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Euler's totient
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, d is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key
((OPTION_C)) This is optional	Totient function
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Collection of protocol designed by IETF
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Operation in Tunnel mode
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects information in
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec in which mode does not protect IP header
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which mode is used when we need host to host protection
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects the whole IP packets
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec defines two protocol
((OPTION_A)) THIS IS MANDATORY OPTION	AH, SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP, ASP
((OPTION_C)) This is optional	AH, ESP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Authentication at the IP header
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES AUTHENTICATION OR ENCRYPTION OR BOTH FOR PACKET AT IP LEVEL
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ESP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSEC USES A SET OF SA CALLED
((OPTION_A)) THIS IS MANDATORY OPTION	SAD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SAB
((OPTION_C)) This is optional	SADB
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol to provide security for inbound and outbound
((OPTION_A)) THIS IS MANDATORY OPTION	SA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CA
((OPTION_C)) This is optional	KDC
((OPTION_D)) This is optional	IKE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE creates SA for
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP
((OPTION_C)) This is optional	IPSec
((OPTION_D)) This is optional	VP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE based on other how many protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Two
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Three
((OPTION_C)) This is optional	Four
((OPTION_D)) This is optional	five
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE uses
((OPTION_A)) THIS IS MANDATORY OPTION	OAKLEY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SKEME
((OPTION_C)) This is optional	ISKAMP
((OPTION_D)) This is optional	ALL ABOVE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network is used in an organization
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Semi private
((OPTION_D)) This is optional	Semi publik
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Private network that uses an internet model
((OPTION_A)) THIS IS MANDATORY OPTION	intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a network that allows authorized access from outside
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Internet authorities have reserved address for
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is provides privacy for LAN
((OPTION_A)) THIS IS MANDATORY OPTION	VPP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	VNP
((OPTION_C)) This is optional	VNN
((OPTION_D)) This is optional	VPN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES END TO END SECURITY FOR APPLICATION
((OPTION_A)) THIS IS MANDATORY OPTION	DATA LINK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NETWORK
((OPTION_C)) This is optional	TRANSPORT
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is actually an IETF version on
((OPTION_A)) THIS IS MANDATORY OPTION	TLS, TSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL. TLS
((OPTION_C)) This is optional	TLS, SSL
((OPTION_D)) This is optional	SSL,SLT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security at the transport layer
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To provide security and compression
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Can receive application data from any application layer protocol
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSL provides
((OPTION_A)) THIS IS MANDATORY OPTION	Integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Compression
((OPTION_D)) This is optional	All above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSI session
((OPTION_A)) THIS IS MANDATORY OPTION	List of protocol
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher suit
((OPTION_C)) This is optional	List of keys
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cryptographic algorithem and secrets are sent with the message IN
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	TLS
((OPTION_D)) This is optional	PGP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security protocol for email security is
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Was invented by Phil Zimmerman
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security, integration, authentication in email
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Method to transfer secure message
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cryptoanalysis
((OPTION_C)) This is optional	both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the original message before transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the message after transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms plaintext to ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms cipher text to plain text
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A combination of encryption and decryption algorithm is called
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher operates on
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The same key used by both the sender and receiver
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The key is called as secret key
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A pair of keys used in
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the sender uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the receiver uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A cipher replaces one character with another
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic and polyalphabetic cipher are
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The simplest monoalphabetic cipher is
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Ceasar cipher that has key of 3
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cipher reorders the plain text to create the ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless substitution To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless transposition To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher made of a combination of different simple cipher
((OPTION_A)) THIS IS MANDATORY OPTION	Round
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Circle
((OPTION_C)) This is optional	Square
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is an method
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES has an Round
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES functions has componenets
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES uses a key generaterto generater to generate sixteen ---round key
((OPTION_A)) THIS IS MANDATORY OPTION	32 bit
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	48 bit
((OPTION_C)) This is optional	54 bit
((OPTION_D)) This is optional	42 bit
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES was designed to increase the size of DES key
((OPTION_A)) THIS IS MANDATORY OPTION	Double
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripal
((OPTION_C)) This is optional	Quadrupal
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Algorithm uses a 128 bit block of data
((OPTION_A)) THIS IS MANDATORY OPTION	AEE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AED
((OPTION_C)) This is optional	AER
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES has how many different combinations
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are ciphers
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Field
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptographic algorithm is
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	AC
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	it provides a one time session key for two parties
((OPTION_A)) THIS IS MANDATORY OPTION	Diffie hellman
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is an abbreviation of
((OPTION_A)) THIS IS MANDATORY OPTION	Terminal network
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Telephone network
((OPTION_C)) This is optional	Telecommunication network
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is a client server application program for
((OPTION_A)) THIS IS MANDATORY OPTION	Specific purpose
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	General purpose
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Users logs in to local time sharing system is called
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To access remote machine need a login
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	NVT uses two set of character
((OPTION_A)) THIS IS MANDATORY OPTION	Sending, receiving
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Request, reply
((OPTION_C)) This is optional	Data, control
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The server uses -----port
((OPTION_A)) THIS IS MANDATORY OPTION	Wellknown
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Emperor
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To distinguish data from characters
((OPTION_A)) THIS IS MANDATORY OPTION	ICA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IAC
((OPTION_C)) This is optional	AIC
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	the echoing is done by the client in the mode
((OPTION_A)) THIS IS MANDATORY OPTION	Default
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Character
((OPTION_C)) This is optional	Line
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP uses a service of
((OPTION_A)) THIS IS MANDATORY OPTION	UDP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IP
((OPTION_C)) This is optional	TCP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP control and data connection are
((OPTION_A)) THIS IS MANDATORY OPTION	21, 22
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	20,21
((OPTION_C)) This is optional	21,20
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP is the service type used by IP protocol because
((OPTION_A)) THIS IS MANDATORY OPTION	Maximise throughput
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Minimize delay
((OPTION_C)) This is optional	Minimize error
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For control connection FTP use a character set of
((OPTION_A)) THIS IS MANDATORY OPTION	Regular ASCII
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EBCDIC
((OPTION_C)) This is optional	NVT ASCII
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP files are types of an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structures
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP there are three types of -----,stream, blocked and compression
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structurs
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP and image defines an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File type
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structure
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the server to client
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Retrieve a list
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the client to server
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Store a file
((OPTION_C)) This is optional	Retrieve a file
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a part of a local hard drive, a special file with permission restriction
((OPTION_A)) THIS IS MANDATORY OPTION	A message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A response
((OPTION_C)) This is optional	An agent
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and the receiver on the same system we need
((OPTION_A)) THIS IS MANDATORY OPTION	One UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	One UA and one MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are on the different system, we need
((OPTION_A)) THIS IS MANDATORY OPTION	One MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	Two UA and one pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender is connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pairs of MTA
((OPTION_C)) This is optional	Two UA and a pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two UA, two pair of MTA, a pair of MAA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pair of MTA
((OPTION_C)) This is optional	Two UA, two pair of MTA, two pair of MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It provides a service to the user to make the process of sending and receiving message
((OPTION_A)) THIS IS MANDATORY OPTION	MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAA
((OPTION_C)) This is optional	UA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following services is not provided by UA
((OPTION_A))  THIS IS MANDATORY OPTION	Composing message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Reading message
((OPTION_C))  This is optional	Reply message
((OPTION_D))  This is optional	ALL are
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There are two types of user agents
((OPTION_A)) THIS IS MANDATORY OPTION	Command driven, data driven
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Command driven, GUI based
((OPTION_C)) This is optional	Command based and data based
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It contains the sender address, receiver address and other information
((OPTION_A)) THIS IS MANDATORY OPTION	Message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Envelop
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The message contains
((OPTION_A)) THIS IS MANDATORY OPTION	Header, envelop
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Header, body
((OPTION_C)) This is optional	Envelop, body
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the internet, the email address contains two parts
((OPTION_A)) THIS IS MANDATORY OPTION	Local part, domain name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Global part, domain name
((OPTION_C)) This is optional	Label, domain name
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is a supplementary protocol that allow Non ASCII data to be sent through email
((OPTION_A)) THIS IS MANDATORY OPTION	JPEG
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MPEG
((OPTION_C)) This is optional	MIME
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The actual email transfer is done through
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol that defines a MTA client and server in the internet is called
((OPTION_A)) THIS IS MANDATORY OPTION	SMTP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SNMP
((OPTION_C)) This is optional	TELNET
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of transferring a mail message occurs in-----phase
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SMTP is --- protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in a email transfer need a ---protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in an email transfer uses an ----protocol
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Currently two message asses protocol are available
((OPTION_A)) THIS IS MANDATORY OPTION	POP3, IMAP2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POP4,IMAP1
((OPTION_C)) This is optional	POP3, IMAP4
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

This sheet is for 1 Mark questions

S.r No	Question	Image	a	b	c	d	Correct Answer
1	Why would a hacker use a proxy server?		To create a stronger	To create a ghost ser	To obtain a remote ac	To hide malicious a	d
2	What type of symmetric key algorithm using a streaming cipher to encrypt inf	RC4	Blowfish	SHA	MD5		a
3	Which of the following is not a factor in securing the environment against an	The education of the	The system configur	The network architec	The business strate		d
4	What type of attack uses a fraudulent server with a relay address?	NTLM	MITM	NetBIOS	SMB		b
5	Which of the following is not a typical characteristic of an ethical hacker?	Excellent knowledg	Understands the proc	Patience, persistence	Has the highest lev		d
6	What is the proper command to perform an Nmap XMAS scan every 15secon	nmap -sX -sneaky	nmap -sX -paranoid	nmap -sX -aggressive	nmap -sX -polite		a
7	What type of rootkit will patch, hook, or replace the versio informaton?	Library level rootki	Kernel level rootkits	System level rootkits	Application level ro		a
8	What is the purpose of a Denial of Service attack?	Exploit a weakness	To execute a Trojan	To overload a system	To shutdown servic		c
9	What are some of the most common vulnerabilities that exist in a network or s	Changing manufact	Additional unused fe	Utilizing open source	Balancing security		b
10	What is the sequence of a TCP connection?	SYN-ACK-FIN	SYN-SYN ACK-AC	SYN-ACK	SYN-SYN-ACK		b
11	What tool can be used to perform SNMP enumeration?	DNSlookup	Whois	Nslookup	IP Network Browse		d
12	Which ports should be blocked to prevent null session enumeration?	Ports 120 and 445	Ports 135 and 136	Ports 110 and 137	Ports 135 and 139		d
13	The first phase of hacking an IT system is compromise of which foundation o	Availability	Confidentiality	Integrity	Authentication		b
14	How is IP address spoofing detected?	Installing and config	Comparing the TTL	Implementing a firew	Identify all TCP ses		c
15	What is the most important activity in system hacking?	Information gatherin	Cracking passwords	Escalating privileges	Covering tracks		b
16	DES follows	Hash Algorithm	Caesars Cipher	Feistel Cipher Struct	SP Networks		c
17	The DES Algorithm Cipher System consists of _____ rounds (iteratio	12	18	9	16		d
18	The DES algorithm has a key length of _____	128 Bits	32 Bits	64 Bits	16 Bits		c
19	In the DES algorithm, although the key size is 64 bits only 48bits are used for	True	False				b
20	In the DES algorithm the round key is _____ bit and the Round Input is	48, 32	64,32	56, 24	32, 32		a
21	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits	Scaling of the existi	Duplication of the ex	Addition of zeros	Addition of ones		a
22	The Initial Permutation table/matrix is of size	16×8	12×8	8×8	4×8		c
23	The number of unique substitution boxes in DES after the 48 bit XOR operati	8	4	6	12		a
24	In the DES algorithm the 64 bit key input is shortened to 56 bits by ignoring e	True	False				b
25	During decryption, we use the Inverse Initial Permutation (IP-1) before the IP	True	False				a
26	A preferable cryptographic algorithm should have a good avalanche effect.	True	False				a
27	The number of tests required to break the DES algorithm are	2.8×1014	4.2×109	1.84×1019	7.2×1016		d
28	The number of tests required to break the Double DES algorithm are	2112	2111	2128	2119		b
29	How many keys does the Triple DES algorithm use?	2	3	2 or 3	3 or 4		c
30	In triple DES, the key size is _____ and meet in the middle attack takes _____ test	2192 ,2112	2,18,42,111	2,16,82,111	2,16,82,112		d
31	Extensions were added in which version?	1	2	3	4		c
32	The subject unique identifier of the X.509 certificates was added in which ver	1	2	3	4		b
33	Which of the following is not an element/field of the X.509 certificates?	Issuer Name	Serial Modifier	Issuer unique Identifi	Signature		b
34	Suppose that A has obtained a certificate from certification authority X1 and B	X2 X1 X1 B	X1 X1 X2 A	X1 X2 X2 B	X1 X2 X2 A		c
35	Certificates generated by X that are the certificates of other CAs are Reverse C	True	False				a
36	It is desirable to revoke a certificate before it expires because	the user is no longer	the CA's certificate i	the user's private key	all of the mentioned		d
37	CRL stands for	Cipher Reusable Lis	Certificate Revocatio	Certificate Revocatio	Certificate Resoluti		c
38	Which of the following is not a part of an Extension?	Extension Identifier	Extension value	Criticality Indicator	All of the mentione		d
39	The criticality indicator indicates whether an extension can be safely ignored.	True	False				a
40	Which Extension among the following does this refer to?	Subject alternative n	Issuer Alternative na	Subject directory attr	None of the mentio		c
41	How many handshake rounds are required in the Public-Key Distribution Sce	7	5	3	4		a
42	A total of seven messages are required in the Public-Key distribution scenario	time stamping	polling	caching	squeezing		c
43	X.509 certificate recommends which cryptographic algorithm?	RSA	DES	AES	Rabin		a
44	The issuer unique identifier of the X.509 certificates was added in which vers	1	2	3	4		b

45	The period of validity consists of the date on which the certificate expires.	True	False			b
46	Which of the following is not a transport layer vulnerability?	Mishandling of und	The Vulnerability th	Overloading of trans	Unauthorized netw	d
47	Which of the following is not session layer vulnerability?	Mishandling of und	Spoofing and hijacki	Passing of session-cr	Weak or non-existe	a
48	Failed sessions allow brute-force attacks on access credentials. This type of a	Physical layer	Data-link Layer	Session layer	Presentation layer	c
49	Transmission mechanisms can be subject to spoofing & attacks based on skill	True	False			a
50	Which of the following is not an example of presentation layer issues?	Poor handling of un	Unintentional or ill-	Cryptographic flaws	Weak or non-existe	a
51	Which of the following is not a vulnerability of the application layer?	Application design	Inadequate security	Logical bugs in progr	Overloading of tran	d
52	Which of the following is an example of Transport layer vulnerability?	weak or non-existe	overloading of trans	poor handling of une	highly complex app	b
53	Which of the following is an example of session layer vulnerability?	weak or non-existe	overloading of trans	poor handling of une	highly complex app	a
54	Which of the following is an example of presentation layer vulnerability?	weak or non-existe	overloading of trans	highly complex appli	poor handling of un	d
55	Which of the following is an example of application layer vulnerability?	Cryptographic flaws	Very complex applic	MAC Address Spoof	Weak or non-existe	b
56	TCP/IP is extensively used model for the World Wide Web for providing netw	TRUE	FALSE			a
57	TCP/IP is composed of _____ number of layers.	2	3	4	5	c
58	Trusted TCP/IP commands have the same needs & go through the identical v	ftp	rexec	tcpexec	telnet	c
59	Connection authentication is offered for ensuring that the remote host has the	address, name	address, location	network, name	network, location	a
60	Application layer sends & receives data for particular applications using Hyp	TRUE	FALSE			a
61	TLS vulnerability is also known as Return of Bleichenbacher's Oracle Threat	TRUE	FALSE			a
62	RoBOT is abbreviated as _____	Return of Bleichenba	Rise of Bleichenbacl	Return of Bleichenba	Return of Bleichen	d
63	There are _____ different versions of IP popularly used.	2	3	4	5	a
64	_____ is an attack where the attacker is able to guess together with the t	TCP Spoofing	TCP Blind Spoofing	IP Spoofing	IP Blind Spoofing	b
65	_____ is an attack technique where numerous SYN packets are spoofed	SYN flooding attac	ACK flooding attack	SYN & ACK floodin	Packet flooding atta	a
66	What are the different ways to intrude?	Buffer overflows	Unexpected combinat	Race conditions	All of the mentione	d
67	What are the major components of the intrusion detection system?	Analysis Engine	Event provider	Alert Database	All of the mentione	d
68	What are the different ways to classify an IDS?	anomaly detection	signature based misu	stack based	all of the mentioned	d
69	What are the different ways to classify an IDS?	Zone based	Host & Network bas	Network & Zone bas	Level based	b
70	What are the characteristics of anomaly based IDS?	It models the norma	It doesn't detect nov	Anything distinct fro	It detects based on	a
71	What is the major drawback of anomaly detection IDS?	These are very slow	It generates many fal	It doesn't detect nove	None of the mention	b
72	What are the characteristics of signature based IDS?	Most are based on s	It is programmed to	It models the normal	Anything distinct fr	a
73	What are the drawbacks of signature based IDS?	They are unable to d	They suffer from fals	They have to be prog	All of the mentione	d
74	What are the characteristics of Host based IDS?	The host operating s	Logs includes logins	Logs are analysed to	All of the mentione	d
75	What are the drawbacks of the host based IDS?	Unselective logging	Selective logging run	They are very fast to	They have to be pro	a
76	Network layer firewall works as a _____	Frame filter	Packet filter	Content filter	Virus filter	b
77	Network layer firewall has two sub-categories as _____	State full firewall ar	Bit oriented firewall	Frame firewall and pa	Frame firewall and	a
78	A firewall is installed at the point where the secure internal network and untr	Chock point	Meeting point	Firewall point	Secure point	a
79	Which of the following is / are the types of firewall?	Packet Filtering Fire	Dual Homed Gatewa	Screen Host Firewall	Dual Host Firewall	a
80	A proxy firewall filters at _____	Physical layer	Data link layer	Network layer	Application layer	d
81	A packet filter firewall filters at _____	Physical layer	Data link layer	Network layer	Application layer	c
82	What is one advantage of setting up a DMZ with two firewalls?	You can control wh	You can do stateful	You can do load balan	Improved network	c
83	What tells a firewall how to reassemble a data stream that has been divided in	The source routing	The number in the he	The destination IP ad	The header checksu	a
84	A stateful firewall maintains a _____ which is a list of active connecti	Routing table	Bridging table	State table	Connection table	a
85	A firewall needs to be _____ so that it can grow proportionally with the	Robust	Expansive	Fast	Scalable	b
86	PII stands for?	Proportionally Identif	Proportionally Inform	Personally Informatio	Personally Identifial	d
87	PII can be.....	sensitive or non sens	sensitive	non sensitive	sensitive and non se	a
88	..... is a crime in which the attacker harasses a victim using electronic messag	Gender based Stalkin	WHOA	Cyber Stalking	PII	c
89	Cyber stalking is crime regarded in the ...	India	Uk	US	Germany	c
90	Cyber stalking is a technologically based on ....	one person	two person	three person	four person	a

91	In .....the Bureau of justice statistics in the United states released the study "S	Feb-09	Jan-10	Feb-10	Jan-09	d
92	Types of Cyber Stalker Attacks?	Stalking by stranger	Gender based Stalkin	Corporate cyber stalki	All of the above	d
93	A notable example of online mob annoyance was the experience of ...	American Software	German Software dev	American hardware de	German hardware d	a
94	The crime involves and uses computer devices and internet is known as .....	Stalking by stranger	Corporate cyber stalk	Cybercrime	Cyber stalking	c
95	Cybercrime can cause....	Direct harm and indi	Direct harm	Direct harm or indire	Indirect harm	c
96	Cybercrime causes loss in ... each Year	Millions	Trillions	Billions	None of the above	c
97	Emergence of information Act,...	2000	2001	2002	2003	a
98	Damage to Computer System etc	Sec 66	Sec 70	Sec 43	Sec 48	c
99	Hacking compensation for Rupees 1 crore.	Sec 66	Sec 70	Sec 43	Sec 48	a
100	Attempting or securing access to computer	Sec 66	Sec 70	Sec 43	Sec 48	b
101	Not complying with directions of controller	Sec 68	Sec 70	Sec 43	Sec 74	a
102	Publishing false digital signatures	Sec 66	Sec 70	Sec 73	Sec 74	c
103	Publishing of digital signatures	Sec 66	Sec 70	Sec 73	Sec 74	d
104	....is carried on by use of unreleable websites or emails.	Phishing	Computer virus	Spoofing	Phone Phishing	c
105	By using email messages which entirely resembles the original mail messages	Phishing	Computer virus	Spoofing	Phone Phishing	b



- A.Phishing
- B.Computer virus
- C.Spoofing
- D.Phone Phishing

- A.Phishing
- B.Computer virus
- C.Spoofing
- D.Phone Phishing

- A.Phishing
- B.Computer virus
- C.Risk posed on Banks and other institutions
- D.Phone Phishing

- A.Firewalls
- B.Digital Singature
- C.Synchronized password
- D.Encryption

- A.Firewalls
- B.Digital Singature
- C.Synchronized password
- D.Encryption

This sheet is for 1 Mark questions							
S.r No	Question	Image	a	b	c	d	Correct Answer
1	_____ is the practice and precautions taken to protect valuable information from unauthorized access, recording, disclosure or destruction.		a) Network Security a) Cloud workload protection platforms a) Bug	b) Database Security b) Cloud security b) Threat	c) Information Security c) AWS c) Vulnerability	d) Physical Security d) One Drive d) Attack	c a b
2	_____ platforms are used for safety and protection of information in the cloud.						
3	Compromising confidential information comes under _____						
4	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____		a) Cyber-crime a) Triangle	b) Cyber Attack b) Diagonal	c) System hijacking c) Ellipse	d) Digital crime d) Circle	b a
5	The CIA triad is often represented by which of the following?						
6	Related to information security, confidentiality is the opposite of which of the following?		a) Closure	b) Disclosure	c) Disaster	d) Disposal	b
7	When you use the word _____ it means you are protecting your data from getting disclosed.		a) Confidentiality a) Confidentiality	b) Integrity b) Integrity	c) Authentication c) Authentication	d) Availability d) Non-repudiation	a b
8	_____ means the protection of data from modification by unknown users.						
9	_____ of information means, only authorized users are capable of accessing the information.		a) Confidentiality	b) Integrity	c) Non-repudiation	d) Availability	d
10	This helps in identifying the origin of information and authentic user. This referred to here as _____		a) Confidentiality a) Encryption	b) Integrity b) Locking b) Open Systems Interconnections	c) Authenticity c) Decryption	d) Availability d) Backup d) Open Standard Interconnections	c a
11	Data _____ is used to ensure confidentiality.						
12	What does OSI stand for in the OSI Security Architecture?		a) Open System Interface		c) Open Source Initiative		b
13	A company requires its users to change passwords every month. This improves the _____ of the network.		a) Performance	b) Reliability	c) Security	d) None of the above	c
14	Release of message contents and Traffic analysis are two types of _____ attacks.		a) Active Attack a) Cipher script	b) Modification of Attack b) Cipher text	c) Passive attack c) Secret text	d) DoS Attack d) Secret script	c b
15	The _____ is encrypted text.		NTLM	MITM	NetBIOS	SMB	
16	What type of attack uses a fraudulent server with a relay address?						
17	Which of the following Algorithms not belong to symmetric encryption			RSA	RC5	IDEA	b
18	Which is the largest disadvantage of the symmetric Encryption?				More complex and therefore Problem of the security	Less secure encryption function	b
19	In cryptography, what is cipher?					Isn't used any more.	
20	In asymmetric key cryptography, the private key is kept by _____		algorithm for performing encryption	both algorithm for performing decryption			a
21	Which one of the following algorithm is not used in asymmetric-key cryptography?		sender	message receiver	sender and receiver	all the connected devices	b
22	In cryptography, the order of the letters in a message is rearranged by _____		rsa algorithm		diffie-hellman algorithm	electronic code book algorithm	c
23	What is data encryption standard (DES)?		transpositional ciphers	substitution ciphers	both transpositional ciphers	a quadratic ciphers	a
24	A asymmetric-key (or public key ) cipher uses		block cipher	stream cipher	bit cipher	byte cipher	a
25	In asymmetric key cryptography, the two keys e and d, have special relationship to _____		1 key	2 key	3 key	4 key	b
26	_____ is the process or mechanism used for converting ordinary plain text into garbled non-human readable text & vice-versa.		others	data	keys	each other	d
27	_____ is a means of storing & transmitting information in a specific format so that only those for whom it is planned can understand or process it.		Malware Analysis	Exploit writing	Reverse engineering	Cryptography	d
28	4. Cryptographic algorithms are based on mathematical algorithms where these algorithms use _____ for a secure transformation of data.						
29	Conventional cryptography is also known as _____ or symmetric-key encryption.		secret key	external programs	add-ons	secondary key	a
30	The procedure to add bits to the last block is termed as _____		secret-key decryption	public key hashing	protected key tuning	primary key padding	a d
31	How many rounds does the AES-192 perform?						b
32	ECC encryption system is _____		10 symmetric key encryption algorithm	12	14	16	
				asymmetric key encr not an encryption algorithm	block cipher method		

33	_____ function creates a message digest out of a message.						
34	Extensions to the X.509 certificates were added in version _____						
35	A digital signature needs _____ system						
36	"Elliptic curve cryptography follows the associative property."						
37	ECC stands for						
38	When a hash function is used to provide message authentication, the hash function value is referred to as						
39	Message authentication code is also known as						
40	The main difference in MACs and digital signatures is that, in digital signatures the hash value of the message is encrypted with a user's public key.						
41	The DSS signature uses which hash algorithm?						
42	What is the size of the RSA signature hash after the MD5 and SHA-1 processing?						
43	In the handshake protocol which is the message type first sent between client and server ?						
44	One commonly used public-key cryptography method is the _____ algorithm.						
45	he _____ method provides a one-time session key for two parties.						
46	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.						
47	In the handshake protocol which is the message type first sent between client and server ?						
48	1. VPN is abbreviated as _____						
49	_____ provides an isolated tunnel across a public network for sending and receiving data privately as if the computing devices were directly connected to the private network.						
50	Which of the statements are not true to classify VPN systems?						
51	What types of protocols are used in VPNs?						
52	VPNs uses encryption techniques to maintain security and privacy while communicating remotely via public network.						
53	There are _____ types of VPNs.						
54	_____ type of VPNs are used for home private and secure connectivity.						
55	Which types of VPNs are used for corporate connectivity across companies residing in different geographical location?						
56	Site-to-Site VPN architecture is also known as _____						
57	There are _____ types of VPN protocols.						
58	IPSec is designed to provide security at the _____						
59	In tunnel mode, IPSec protects the _____						
60	Pretty good privacy (PGP) is used in _____						
61	PGP encrypts data by using a block cipher called _____						
62	IKE creates SAs for _____.						
63	_____ provides either authentication or encryption, or both, for packets at the IP level.						
64	A _____ network is used inside an organization.						
65	SSL provides _____.						
		encryption	decryption	hash	none of the above	c	
		symmetric-key TRUE	asymmetric-key FALSE	either (a) or (b)	neither (a) nor (b)	c b a	
		Elliptic curve cryptography	Enhanced curve crypt	Elliptic cone crypt	Eclipse curve cryptograph	a	
		Message Field	Message Digest	Message Score	Message Leap	d	
		key code	hash code	keyed hash function	message key hash functio	b	
		TRUE	FALSE				
		MD5 42 bytes	SHA-2 32 bytes	SHA-1 36 bytes	Does not use hash algoritl 48 bytes	b c c	
		server_hello RSS Diffie-Hellman	client_hello RAS RSA	hello_request RSA DES	certificate_request RAA AES	b c a	
		man-in-the-middle	ciphertext attack	plaintext attack	none of the above	a	
		server_hello	client_hello	hello_request	certificate_request	b	
		Visual Private Network	Virtual Protocol Netw	Virtual Private Network	Virtual Protocol Networki	c	
		Visual Private Network	Virtual Protocol Netw	Virtual Protocol Networking	Virtual Private Network	d	
		Protocols used for tunnelling	Whether VPNs are pr	Securing the network from bc	Levels of security provide	c	
		Application level protocols	Tunnelling protocols	Network protocols	Mailing protocols	a	
		TRUE	False			a	
		Remote access VPNs	Site-to-site VPNs	Peer-to-Peer VPNs	Router-to-router VPNs	b a	
		Remote access VPNs	Site-to-site VPNs	Peer-to-Peer VPNs	Country-to-country VPNs	b	
		Remote connection based \ Peer-to-Peer VPNs	Extranet based VPN		Country-to-country VPNs	c	
		3	4	5	6	d b a b	
		Transport layer Entire IP packet Browser security	Network layer IP header Email security Private data	Application layer IP payload FTP security	Session layer IP trailer WiFi security		
		International data encryption algorithm SSL AH private	encryption algorithm PGP ESP public	Internet data encryption algorithm IPSec PGP semi-private	Local data encryption algorithm VP SSL semi-public	a c b a	
		message integrity	confidentiality	compression	all of the above	d	

66	IKE uses _____	Oakley	SKEME	ISAKMP	all of the above	d
67	In _____, there is a single path from the fully trusted authority to any certificate.	X509	PGP	KDC	none of the above	a
68	A _____ provides privacy for LANs that must communicate through the global Internet.	VPP	VNP	VNN	VPN	d
69	_____ uses the idea of certificate trust levels.	X509	PGP	KDC	none of the above	b
70	_____ provides privacy, integrity, and authentication in e-mail.	IPSec	SSL	PGP	none of the above	c
71	In _____, there can be multiple paths from fully or partially trusted authorities.	X509	PGP	KDC	none of the above	b
72	_____ provides authentication at the IP level.	AH	ESP	PGP	SSL	a
73	In _____, the cryptographic algorithms and secrets are sent with the message.	IPSec	SSL	TLS	PGP	d
74	_____ was invented by Phil Zimmerman.	IPSec	SSL	PGP	none of the above	c
75	ISAKMP stands for _____	Internet system Association and Key Management Packet	Association and Key Management	Interchange System And Key Protocol	Internet Security Association and Key Modeling Protocol	b
76	PGP makes use of which cryptographic algorithm?	DES	AES	RSA	Rabin	c
77	What is the key size allowed in PGP?	1024-1056	1024-4056	1024-4096	1024-2048	c
78	In SSL, what is used for authenticating a message?	MAC (Message Access Code)	Authentication	MAC (Machine Code)	MAC (Machine Access Code)	b
79	S/MIME is abbreviated as _____	Secure/Multimedia Internet Mailing Extensions	Secure/Multipurpos e Internet Mailing Extensions	Secure/Multimedia Internet Mail Extensions	Secure/Multipurpose Internet Mail Extensions	d
80	Security Measures Needed to protect _____ during their transmission	file	Data	packet	All of above	b
81	_____ means knowledge obtained from investigation, study , intelligence new ,facts .	Security	Data	Information	None of These	c
82	Prevention of the unauthorised used of Resources refers too?	Data Integrity	Data confidentiality	Access Control	None of these	c
83	Protection against Denial by one of these parties in a communication refers to?	Non-Repudiation	Data integrity	Authentication	None of these	a
84	Which One of them is Passive attack?	Denial of Service	modify message in transit	Replay previous message	obtain message contain	d
85	What is lying of IP address called as?	IP Spoofing	IP Scamming	IP Lying	None Of theses	a
86	What is full form of DDoS?	Derived Denial of service	Distributed Denial of service	Denial of service	None of these	b
87	A hacker guessing suggested password to a program is call as?	Password Guessing	Dictionary Attack	Default password attack	None of these	c
88	Symmetric key encryption is also called as?	public key Encryption	Private Key Encryption	Both of these	None of these	b
89	Conversion of Cypher text to plain text?	Encryption	Decryption	Simple text	none of these	b
90	is used to create the organisation's overall security program.	program policy	purpose	security	none of these	a
91	An act of protecting information from unauthorised discloser to an entity.-	intergrity	availability	confidentiality	none of these	c
92	A way to ensure that the entity is indeed what it claims to be.-	Authentication	Accountability	identification	security	a
93	The _____ model is 7 layer architecture where each layer is having some specific functionality to perform.	TCP	OSI	OIS	none of these	b
94	The full form of OSI is OSI model_____.	open systems interconnection	open software interconnection	open connection	open system internet	a
95	The technique in which when one character is replaced by another Character is called as?	Transposition	Substitution	Combinational	None of these	b
96	Conversion of plain text into Cipher text is called as _____.	Encryption	Decryption	Hidden Text	none of above	a
97	In Symmetric schemes requires both parties to share how many secret key?	one	two	three	four	a
98	Blum Blum Shub Generator is based on which Algorithm?	Private key	Public key	both a & b	none of these	b
99	In DES step both LPT and RPT undergoes in how much key Rounds?		8	16	32	64
100	What is the 4th step in DES Algorithm?	key transformation	S-box Substitution	P-box Permutation	Expansion permutation	c
101	In AES in which Round Subkeys are Generated from Original key for each round?	Key Expansion	Initial Round	Finale Round	none of these	a
102	AES stands for?	Authorized Encryption Standard	Advance Encryption Standard	Advance Encryption Strategy	none of these	b
103	Which of them is type of Cipher?	Stream Cipher	Block Cipher	both of Them	none of these	c
104	The message which is not understandable is called as?	Cipher Text	plain text	Hidden text	both a & c	a

105	The _____ is a polygraphic substitution cipher based on linear algebra.	Hill cipher	playfair cipher	Affine cipher	none of these	a
106	_____ is the practice of concealing a message within another message,image or file.	steganography	cryptography	cipher	receiver	a
107	In asymmetric key cryptography, the private key is kept by _____	sender	receiver	sender and receiver	none of these	b
108	What is data encryption standard (DES)?	block cipher	stream cipher	bit cipher	byte cipher	a
109	In cryptography the original message before being transform is called	simple text	plain text	empty text	filled text	b
110	An asymmetric-key (or public-key) cipher uses	1 key	2 key	3 key	4 key	a
111	In Asymmetric-Key Cryptography, although RSA can be used to encrypt and decrypt actual messages, it is very slow if the message is	Short	Flat	Long	Thin	c
112	The man-in-the-middle attack can endanger the security of the Diffie-Hellman method if two parties are not	Authenticated	Joined	Submit	Separate	a
113	In Asymmetric-Key Cryptography, the two keys, e and d, have a special relationship to	other	Data	Keys	Each other	d
114	For RSA to work, the value of P must be less than the value of	p	q	n	r	c
115	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.	(p)/(q)	(p)(q)	(p-1)(q-1)	(p+1)(q+1)	c
116	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .	TRUE	FALSE			b
117	RSA is also a stream cipher like Merkel-Hellman.	TRUE	FALSE			a
118	USENET falls under which category of public key sharing?	public announcement	publicly available directory	public key authority	public key certificate	a
119	PGP makes use of which cryptographic algorithm?	RSA	AES	DES	ROBIN	a
120	Public key cryptography also called as _____	Asymmetric key cryptography	Symmetric key cryptography	Both a and b	None of the above	a
121	ECC stands for	Elliptic Curve Cryptography	Elliptic Cryptography Curve	Error Correcting Code	None of the above	a
122	Diffie-Hellman algorithm is widely known as _____	Key exchange algorithm	key agreement algorithm	only a	Both a and b	d
123	Hash function is used for _____	Message authentication	Digital Signature	Both a and b	only a	c
124	RSA algorithm is best example of _____	Asymmetric key cryptography	Symmetric key cryptography	Elliptic Curve Cryptography	All of the above	a
125	IPSec is designed to provide security at the _____	Transport layer	Network layer	Application layer	Session layer	b
126	In tunnel mode, IPSec protects the _____	Entire IP packet	IP header	IP payload	IP trailer	a
127	HTTPS is abbreviated as _____	Hypertext Transfer Protocol Secured	Secured Hyper Text Transfer Protocol	Hyperlinked Text Transfer Protocol Secured	Hyper Text Transfer Protocol Secure	d
128	An attempt to make a computer resource unavailable to its intended users is called _____	Denial-of-service attack	Virus attack	Worms attack	Botnet process	a
129	SSL primarily focuses on _____	integrity and authenticity	integrity and non-repudiation	authenticity and privacy	confidentiality and integrity	a
130	Pretty good privacy (PGP) is used in _____	Browser security	Email security	WiFi security	FTP security	b
131	_____ is used for encrypting data at network level	IPSec	HTTPS	SMTP	S/MIME	a
132	WPA2 is used for security in _____	Ethernet	Wi-Fi	Bluetooth	E-mail	b
133	Which of the following is not a strong security protocol	SSL	HTTP	SMTP	SFTP	c
134	TSL (Transport Layer Security) is a cryptographic protocol used for securing HTTP/HTTPS based connection.	TRUE	FALSE			a
135	IPSec operates in..... different modes		3	2	4	5 b
136	length of the IPv4 address is ....	32 bits	64 bits	16 bits	128 bit	a
137	Internet Key Exchange has .... phases and modes of operations		4	3	2	5 c
138	PGP is abbreviated as	Pretty Good Privacy	Pretty Good Policy	Policy Good Privacy	Pretty Good Protection	a
139	SET stands for	Set Electronic Transaction	Transaction	Simple Electronic Transaction	none of the above	b
140	Transport layer Protocol consists of ... main components		2	1	3	4 a
141	length of the IPv6 address is ....	32 bits	64 bits	16 bits	128 bit	b
142	SSL provides _____ .	message integrity	confidentiality	compression	all of the above	d
143	IPSec provides ....protocols for network layer		7	3	1	4 a
144	length of the IPv6 header is....	64 bits	16 bits	32 bits	8 bits	c

## Question Bank for Information and Cyber Security (ICS)

### 1. Why would a hacker use a proxy server?

- A. To create a stronger connection with the target.
- B. To create a ghost server on the network.
- C. To obtain a remote access connection.
- D. To hide malicious activity on the network.

**Correct Answer – D**

**Explanation –** Proxy servers exist to act as an intermediary between the hacker and the target and services to keep the hacker anonymous to the network.

### 2. What type of symmetric key algorithm using a streaming cipher to encrypt information?

- A. RC4
- B. Blowfish
- C. SHA
- D. MD5

**Correct Answer – A**

**Explanation –** RC4 uses streaming ciphers.

### 3. Which of the following is not a factor in securing the environment against an attack on security?

- A. The education of the attacker
- B. The system configuration
- C. The network architecture
- D. The business strategy of the company
- E. The level of access provided to employees

**Correct Answer – D**

**Explanation –** All of the answers are factors supporting the exploitation or prevention of an attack. The business strategy may provide the motivation for a potential attack, but by itself will not influence the outcome.

### 4. What type of attack uses a fraudulent server with a relay address?

- A. NTLM
- B. MITM
- C. NetBIOS
- D. SMB

**Correct Answer – B**

**Explanation –** MITM (Man in the Middle) attacks create a server with a relay address. It is used in SMB relay attacks.

### 5. What port is used to connect to the Active Directory in Windows 2000?

- A. 80
- B. 445
- C. 139
- D. 389

**Correct Answer – D**

**Explanation –** The Active Directory Administration Tool used for a Windows 2000 LDAP client uses port 389 to connect to the Active Directory service.

### 6. To hide information inside a picture, what technology is used?

- A. Rootkits
- B. Bitmapping

- C. Steganography
- D. Image Rendering

**Correct Answer – C**

**Explanation** – Steganography is the right answer and can be used to hide information in pictures, music, or videos.

**7. Which phase of hacking performs actual attack on a network or system?**

- A. Reconnaissance
- B. Maintaining Access
- C. Scanning
- D. Gaining Access

**Correct Answer – D**

**Explanation** – In the process of hacking, actual attacks are performed when gaining access, or ownership, of the network or system. Reconnaissance and Scanning are information gathering steps to identify the best possible action for staging the attack. Maintaining access attempts to prolong the attack.

**8. Attempting to gain access to a network using an employee's credentials is called the \_\_\_\_\_ mode of ethical hacking.**

- A. Local networking
- B. Social engineering
- C. Physical entry
- D. Remote networking

**Correct Answer – A**

**Explanation** – Local networking uses an employee's credentials, or access rights, to gain access to the network. Physical entry uses credentials to gain access to the physical IT infrastructure.

**9. Which Federal Code applies the consequences of hacking activities that disrupt subway transit systems?**

- A. Electronic Communications Interception of Oral Communications
- B. 18 U.S.C. § 1029
- C. Cyber Security Enhancement Act 2002
- D. 18 U.S.C. § 1030

**Correct Answer – C**

**Explanation** – The Cyber Security Enhancement Act 2002 deals with life sentences for hackers who recklessly endanger the lives of others, specifically transportation systems.

**10. Which of the following is not a typical characteristic of an ethical hacker?**

- A. Excellent knowledge of Windows.
- B. Understands the process of exploiting network vulnerabilities.
- C. Patience, persistence and perseverance.
- D. Has the highest level of security for the organization.

**Correct Answer – D**

**Explanation** – Each answer has validity as a characteristic of an ethical hacker. Though having the highest security clearance is ideal, it is not always the case in an organization.

**11. What is the proper command to perform an Nmap XMAS scan every 15seconds?**

- A. nmap -sX -sneaky
- B. nmap -sX -paranoid
- C. nmap -sX -aggressive
- D. nmap -sX -polite

**Correct Answer – A**

**Explanation** – SX is used to identify a xmas scan, while sneaky performs scans 15 seconds apart.

**12. What type of rootkit will patch, hook, or replace the version of system call in order to hide information?**

- A. Library level rootkits
- B. Kernel level rootkits
- C. System level rootkits
- D. Application level rootkits

**Correct Answer – A**

**Explanation** – Library leve rootkits is the correct answer. Kerel level focuses on replaceing specific code while application level will concentrate on modifying the behavior of the application or replacing application binaries. The type, system level, does not exist for rootkits.

**13. What is the purpose of a Denial of Service attack?**

- A. Exploit a weakness in the TCP/IP stack
- B. To execute a Trojan on a system
- C. To overload a system so it is no longer operational
- D. To shutdown services by turning them off

**Correct Answer – C**

**Explanation** – DoS attacks force systems to stop responding by overloading the processing of the system.

**14. What are some of the most common vulnerabilities that exist in a network or system?**

- A. Changing manufacturer, or recommended, settings of a newly installed application.
- B. Additional unused features on commercial software packages.
- C. Utilizing open source application code
- D. Balancing security concerns with functionality and ease of use of a system.

**Correct Answer – B**

**Explanation** – Linux is an open source code and considered to have greater security than the commercial Windows environment. Balancing security. Ease of use and functionality can open vulnerabilities that already exist. Manufacturer settings, or default settings, may provide basic protection against hacking threats, but need to change to provide advance support. The unused features of application code provide an excellent opportunity to attack and cover the attack.

**15. What is the sequence of a TCP connection?**

- A. SYN-ACK-FIN
- B. SYN-SYN ACK-ACK
- C. SYN-ACK
- D. SYN-SYN-ACK

**Correct Answer – B**

**Explanation** – A three-handed connection of TCP will start with a SYN packet followed by a SYN-ACK packet. A final ACK packet will complete the connection.

**16. What tool can be used to perform SNMP enumeration?**

- A. DNSlookup
- B. Whois
- C. Nslookup
- D. IP Network Browser

**Correct Answer – D**

**Explanation** – SNMPPUtil and IP Network Browser is SNMP enumeration tool

**17. Which ports should be blocked to prevent null session enumeration?**

- A. Ports 120 and 445
- B. Ports 135 and 136
- C. Ports 110 and 137
- D. Ports 135 and 139

**Correct Answer – D**

**Explanation** – Port 139 is the NetBIOS Session port typically can provide large amounts of information using APIs to connect to the system. Other ports that can be blocked in 135, 137,138, and 445.

**18. The first phase of hacking an IT system is compromise of which foundation of security?**

- A. Availability
- B. Confidentiality
- C. Integrity
- D. Authentication

**Correct Answer – B**

**Explanation** – Reconnaissance is about gathering confidential information, such as usernames and passwords.

**19. How is IP address spoofing detected?**

- A. Installing and configuring a IDS that can read the IP header
- B. Comparing the TTL values of the actual and spoofed addresses
- C. Implementing a firewall to the network
- D. Identify all TCP sessions that are initiated but does not complete successfully

**Correct Answer – B**

**Explanation** – IP address spoofing is detectable by comparing TTL values of the actual and spoofed IP addresses

**20. Why would a ping sweep be used?**

- A. To identify live systems
- B. To locate live systems
- C. To identify open ports
- D. To locate firewalls

**Correct Answer – A**

**Explanation** – A ping sweep is intended to identify live systems. Once an active system is found on the network, other information may be distinguished, including location. Open ports and firewalls.

**21. What are the port states determined by Nmap?**

- A. Active, inactive, standby
- B. Open, half-open, closed
- C. Open, filtered, unfiltered
- D. Active, closed, unused

**Correct Answer – C**

**Explanation** – Nmap determines that ports are open, filtered, or unfiltered.

**22. What port does Telnet use?**

- A. 22
- B. 80
- C. 20
- D. 23

**Correct Answer – D**

**Explanation** – Telnet uses port 23.

**23. Which of the following will allow footprinting to be conducted without detection?**

- A. PingSweep
- B. Traceroute
- C. War Dialers
- D. ARIN

**Correct Answer – D**

**Explanation** – ARIN is a publicly accessible database, which has information that could be valuable. Because it is public, any attempt to obtain information in the database would go undetected.

**24. Performing hacking activities with the intent on gaining visibility for an unfair situation is called \_\_\_\_\_.**

- A. Cracking
- B. Analysis
- C. Hacktivism
- D. Exploitation

**Correct Answer – C**

**Explanation** – Hacktivism is the act of malicious hacking for a cause or purpose.

**25. What is the most important activity in system hacking?**

- A. Information gathering
- B. Cracking passwords
- C. Escalating privileges
- D. Covering tracks

**Correct Answer – B**

**Explanation** – Passwords are a key component to access a system, making cracking the password the most important part of system hacking.

**26. A packet with no flags set is which type of scan?**

- A. TCP
- B. XMAS
- C. IDLE
- D. NULL

**Correct Answer – D**

**Explanation** – A NULL scan has no flags set.

**27. Sniffing is used to perform \_\_\_\_\_ fingerprinting.**

- A. Passive stack
- B. Active stack
- C. Passive banner grabbing
- D. Scanned

**Correct Answer – A**

**Explanation** – Passive stack fingerprinting uses sniffing technologies instead of scanning.

**28. Phishing is a form of \_\_\_\_\_.**

- A. Spamming
- B. Identify Theft
- C. Impersonation
- D. Scanning

**Correct Answer – C**

**Explanation** – Phishing is typically a potential attacker posing, or impersonating, a financial institution

**29. Why would HTTP Tunneling be used?**

- A. To identify proxy servers
- B. Web activity is not scanned
- C. To bypass a firewall
- D. HTTP is a easy protocol to work with

**Correct Answer – C**

**Explanation** – HTTP Tunneling is used to bypass the IDS and firewalls present on a network.

**30. Which Nmap scan is does not completely open a TCP connection?**

- A. SYN stealth scan
- B. TCP connect
- C. XMAS tree scan
- D. ACK scan

**Correct Answer – A**

**Explanation** – Also known as a “half-open scanning,” SYN stealth scan will not complete a full TCP connection.

**31. What protocol is the Active Directory database based on?**

- A. LDAP
- B. TCP
- C. SQL
- D. HTTP

**Correct Answer – A**

**Explanation** – Active4 direction in Windows 200 is based on a Lightweight Directory Access Protocol (LDAP).

**32. Services running on a system are determined by \_\_\_\_\_.**

- A. The system’s IP address.
- B. The Active Directory
- C. The system’s network name
- D. The port assigned

**Correct Answer – D**

**Explanation** – Hackers can identify services running on a system by the open ports that are found.

**33. What are the types of scanning?**

- A. Port, network, and services
- B. Network, vulnerability, and port
- C. Passive, active, and interactive
- D. Server, client, and network

**Correct Answer – B**

**Explanation** – The three types of accepted scans are port, network, and vulnerability.

**34. Enumeration is part of what phase of ethical hacking?**

- A. Reconnaissance
- B. Maintaining Access
- C. Gaining Access
- D. Scanning

**Correct Answer – C**

**Explanation** – Enumeration is a process of gaining access to the network by obtaining information on a user or system to be used during an attack.

**35. Keyloggers are a form of \_\_\_\_\_.**

- A. Spyware
- B. Shoulder surfing
- C. Trojan
- D. Social engineering

**Correct Answer – A**

**Explanation** – Keyloggers are a form of hardware or software spyware installed between the keyboard and operating system.

**36. What are hybrid attacks?**

- A. An attempt to crack passwords using words that can be found in dictionary.
- B. An attempt to crack passwords by replacing characters of a dictionary word with numbers and symbols.
- C. An attempt to crack passwords using a combination of characters, numbers, and symbols.
- D. An attempt to crack passwords by replacing characters with numbers and symbols.

**Correct Answer – B**

**Explanation** – Hybrid attacks do crack passwords that are created with replaced characters of dictionary type words.

**37. Which form of encryption does WPA use?**

- A. Shared key
- B. LEAP
- C. TKIP
- D. AES

**Correct Answer – C**

**Explanation** – TKIP is used by WPA

**38. What is the best statement for taking advantage of a weakness in the security of an IT system?**

- A. Threat
- B. Attack
- C. Exploit
- D. Vulnerability

**Correct Answer – C**

**Explanation** – A weakness in security is exploited. An attack does the exploitation. A weakness is vulnerability. A threat is a potential vulnerability.

**39. Which database is queried by Whois?**

- A. ICANN
- B. ARIN
- C. APNIC
- D. DNS

**Correct Answer – A**

**Explanation** – Who utilizes the Internet Corporation for Assigned Names and Numbers.

**40. Having individuals provide personal information to obtain a free offer provided through the Internet is considered what type of social engineering?**

- A. Web-based
- B. Human-based
- C. User-based
- D. Computer-based

**Correct Answer – D**

**Explanation** – Whether using email, a fake website, or popup to entice the user, obtaining information from an individual over the Internet is a computer-based type of social engineering

**1) You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,**

$$A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$$

**Is the given matrix 'A', a valid key to be used for encryption?**

- a. Yes
- b. No
- c. Can't be determined
- d. Data insufficient

**Answer:** b) No

**Explanation:**

For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist. Here, in this case,

$$|A| = 0$$

Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the [Hill cipher](#).

**2) The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?**

- a. The input text is divided into two parts: one being left half and another one being right half.
- b. Swapping of the left and right halves are performed after each round.
- c. The plain text is converted into a matrix form first
- d. None of the above

**Answer:** c) The plain text is converted into a matrix form first

**Explanation:**

The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

**3) Among the following given options, chose the strongest encryption technique?**

- a. DES ( Data Encryption Standard)
- b. Double DES
- c. Triple DES
- d. AES (Advance Encryption Standard)

**Answer:** d) AES (Advance Encryption Standard)

**Explanation:**

It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

**4) What is the full-form of RSA in the RSA encryption technique?**

- a. Round Security Algorithm
- b. Rivest, Shamir, Adleman
- c. Robert, Shamir, Addie
- d. None of the above

**Answer:** b) Rivest, Shamir, Adleman

**Explanation:**

The RSA algorithm was named after the three scientists who developed this technique and the name RSA is itself the abbreviation of their names: Rivest, Shamir, and Adleman.

**5) Consider the following steps,**

- i. Substitution bytes
- ii. Shift Rows
- iii. Mix columns
- iv. Add round key

**The above steps are performed in each round of which of the following ciphers?**

- a. Rail fence cipher
- b. Data Encryption Standard (DES)
- c. Advance Encryption Standard (AES)
- d. None of the above

**Answer:** c) Advance Encryption Standard (AES)

**Explanation:**

Each round of AES includes the mentioned steps.

**1) What is the block size of plain text in SHA- 512 algorithm?**

- a. 512 bits
- b. 1024 bits
- c. 2048 bits

- d. None of the above

**Answer:** b. 1024 bits

**Explanation:**

The SHA- 512 algorithm uses blocks of plain text one at a time to encrypt them into ciphertext. The size of each block in the SHA- 512 algorithm is 1024 bits.

**2) All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?**

- i. Substitution bytes
- ii. Shift rows
- iii. Mix columns
- iv. Add round key

**Options**

- a. i.
- b. iii.
- c. All of the mentioned
- d. None of the mentioned

**Answer:** b. iii.

**Explanation:**

In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.

**3) What does IDEA stand for in the world of cryptography?**

**or**

**The IDEA word in the IDEA algorithm is the abbreviation for which of the following?**

- a. Independent Decryption Environment Analysis
- b. International Defense Encryption Area
- c. International Data Encryption Algorithm
- d. None of the above

**Answer:** c. International Data Encryption Algorithm

**Explanation:**

The IDEA Algorithm stands for "International Data Encryption Algorithm".

**4) How many sub-keys in the total are used by the IDEA for encrypting the plain text into ciphertext?**

- a. 64 sub- keys
- b. 48 sub- keys
- c. 52 sub- keys
- d. Only one key and no subkeys

**Answer:** c. 52 sub- keys

**Explanation:**

There are a total of 8 rounds in the IDEA technique for encryption and each of them uses 6 keys. Apart from that, 4 extra keys are used in the final round that is the output transformation round. This gives us a total of 52 subkeys.

$$(8 \times 6) + 4 = 52$$

**5) "The number of rounds in the AES algorithm depends upon the key size being used."**  
**Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?**

- a. 128 key size: 10 rounds
- b. 192 key size: 12 rounds
- c. 256 key size: 14 rounds
- d. All of the above

**Answer:** d. All of the above

**Explanation:**

All the mentioned options display the correct relation between the number of rounds and the key size used in the AES algorithm.

**6) Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?**

- a. Avalanche effect
- b. Completeness
- c. Both a. and b.
- d. None of the above

**Answer:** c. Both a. and b.

**Explanation:**

Avalanche effect and Completeness are the two characteristic properties of Block ciphers which differ them from stream ciphers.

**81. Public key encryption/decryption is not preferred because**

- a. it is slow

- b.** it is hardware/software intensive
- c.** it has a high computational load
- d.** all of the mentioned

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**Answer:** (d).all of the mentioned

- 82.** Which one of the following is not a public key distribution means?
- a.** Public-Key Certificates
  - b.** Hashing Certificates
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (b).Hashing Certificates

- 83.** What is the PGP stand for?
- a.** Permuted Gap Permission
  - b.** Permuted Great Privacy
  - c.** Pretty Good Permission
  - d.** None of the mentioned

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**Answer:** (d).None of the mentioned

- 84.** PGP makes use of which cryptographic algorithm?
- a.** DES
  - b.** AES

c. RSA

d. Rabin

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**Answer:** (c).RSA

**85.** USENET is related to which of the following Public Key distribution schemes?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (b).Public announcements

**86.** Which of the following public key distribution systems is most secure?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (a).Public-Key Certificates

**87.** Which systems use a timestamp?

i) Public-Key Certificates

ii) Public announcements

iii) Publicly available directories

iv) Public-Key authority

a. i) and ii)

- b.** iii) and iv)
- c.** i) and iv)
- d.** iv) only

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**Answer:** (c).i) and iv)

- 88.** Which of these systems use timestamps as an expiration date?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 89.** Which system uses a trusted third party interface?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 90.** Publicly Available directory is more secure than which other system?
- a.** Public-Key Certificates
  - b.** Public announcements

- c. Public-Key authority
- d. None of the mentioned

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**Answer:** (b).Public announcements

1. A method used by an IDS that involves checking for a pattern to identify unauthorized activity.*(No Answer)*
  - a. **CORRECT:** Pattern Matching
  - b. Session Splicing
  - c. Protocol Decoding
  - d. State Table
2. A list or table of stored by a router (or switch) that controls access to and from a network.*(No Answer)*
  - . State Table
    - a. **CORRECT:** Access Control List (ACL)
    - b. Session Splicing
    - c. Packet Filter
3. An analysis method used by some IDS that looks for instances that are not considered normal behavior.*(No Answer)*
  - . Stateful Inspection
    - a. **CORRECT:** Anomaly Detection
    - b. Evasion
    - c. Pattern Matching
4. Bypassing a device, or performing another action, to attack or place malware on a target network without being detected.*(No Answer)*
  - . Packet Filter
    - a. State Table
    - b. **CORRECT:** Evasion
    - c. Honeypot

5. A type of firewall closely related to a packet filter that can track the status of a connection through use of a state table that keeps track of connection activities.(*No Answer*)
  - . Anomaly Detection
    - a. Protocol Decoding
    - b. **CORRECT:** Stateful Inspection
    - c. State Table
6. A tool that uses the monitoring of network traffic, detection of unauthorized access attempts, and notification of unauthorized access attempts to network administrator.(*No Answer*)
  - . Anomaly Detection
    - a. Access Control List (ACL)
    - b. **CORRECT:** Intrusion Detection System (IDS)
    - c. Session Splicing
7. A type of stateless inspection used in some routers and firewalls to limit flow of traffic to what is on the ACL.(*No Answer*)
  - . **CORRECT:** Packet Filter
    - a. Proxy Server
    - b. Evasion
    - c. State Table
8. A way of looking at raw packet data.(*No Answer*)
  - . Proxy Server
    - a. Session Splicing
    - b. **CORRECT:** Protocol Decoding
    - c. Pattern Matching
9. A server (or application) that intercepts the requests clients make of another server, fills the requests that it can, and then forwards the requests it can't handle on to the other server thus helping to improve performance and security.(*No Answer*)
  - . Honeypot
    - a. **CORRECT:** Proxy Server
    - b. Packet Filter
    - c. State Table

10. A table in which data about connection activity is kept by a stateful firewall.(*No Answer*)

- . Evasion
  - a. **CORRECT:** State Table
  - b. Honeypot
  - c. Proxy Server

11. Something set up on a separate network (or in DMZ) to attract hackers and lure them away from the real network; it logs keystrokes, provides other information about an attacker, and also provides warning that someone is trying to attack your network.(*No Answer*)

- . Proxy Server
  - a. State Table
  - b. Evasion
  - c. **CORRECT:** Honeypot

12. A way to change network address information in IP packet headers with a router by connecting multiple computers using one IP address connected to the Internet (or IP network) to convert many private addresses into one public address.(*No Answer*)

- . Access Control List (ACL)
  - a. **CORRECT:** Network Address Translation (NAT)
  - b. Anomaly Detection
  - c. Intrusion Detection System (IDS)

13. A method of avoiding detection by an IDS by sending portions of a request in different packets.(*No Answer*)

- . **CORRECT:** Session Splicing
  - a. Protocol Decoding
  - b. Pattern Matching
  - c. Evasion

1.

What are drawbacks of the host based IDS ?

- A.) Unselective logging of messages may increase the audit burdens
- B.) Selective logging runs the risk of missed attacks
- C.) They are very fast to detect

- D.) They have to be programmed for new patterns

**Show Answer**

**Answer: Option 'A'**

**Unselective logging of messages may increase the audit burdens**

2.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

3.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

4.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

5.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider

- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

6.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

7.

What are characteristics of stack based IDS ?

- A.) They are integrated closely with the TCP/IP stack and watch packets
- B.) The host operating system logs in the audit information
- C.) It is programmed to interpret a certain series of packets
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They are integrated closely with the TCP/IP stack and watch packets**

8.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider
- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

9.

What are characteristics of Network based IDS ?

- A.) They look for attack signatures in network traffic
- B.) Filter decides which traffic will not be discarded or passed
- C.) It is programmed to interpret a certain series of packet
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They look for attack signatures in network traffic**

10.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

11.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

1. -systematic tracking of incoming and outgoing traffic: to ascertain how an attack was carried out or how an event occurred on a network.

-intruders and network users often leave trail behind

-identify locations where relevant digital evidence exists

-crucial when developing data map of digital evidence(*No Answer*)

- a. SIM Cards
  - b. Windows Registry
  - c. **CORRECT: Network Forensics**
  - d. Drive Slack
2. -personal digital assistant: can be separated devices from mobile phones
- PDA houses a microprocessor, ROM, RAM, disk drive and various components
- most common PDA, although not referred to as such:IPAD(*No Answer*)
- . Partition
    - a. SIM Cards
    - b. EEPROM
    - c. **CORRECT: PDA's**
3. -a logical drive(*No Answer*)
- . EEPROM
    - a. PDA's
    - b. SIM Cards
    - c. **CORRECT: Partition**
4. - .EVE -> .DFT -> IOLogErrors
- .DD -> .DFT -> IOLogErrors -> MD5(*No Answer*)
- . Additional SIM Card Purposes
    - a. Types of The Formats ProDiscover Creates
    - b. **CORRECT: Files Found When Acquisition is Done (ProDiscover)**
    - c. Mobile Forensics Equipment
5. -allows you to create a representation of another computer on an existing physical computer.
- a virtual machine is just a few files on your hard drive: must allocate space to it; dynamic or static
- a virtual machine recognizes components of the physical machine its on: virtual OS is limited by the physical machines O/S and RAM. (*No Answer*)

- . Partition
  - a. **CORRECT:** Virtual Machine
  - b. Drive Slack
  - c. SIM Cards
- 6. Considerations
  - determine the scope of the investigation.
  - determine what the case requires
  - whether you should collect all info
  - what to do in case of scope creep
- \*the key is to start with a plan but remain flexible in the face of new evidence(*No Answer*)
- . **CORRECT:** Examination Plan
  - a. Drive Slack
  - b. Partition
  - c. SIM Cards
- 7. Can be exported as:
  - RTF ~good for thumbnails and book marks
  - TEXT~plain text(*No Answer*)
- . Drive Slack
  - a. Write Blockers
  - b. Windows Registry
  - c. **CORRECT:** ProDiscover Report
- 8. -UNIX DD~most common raw image format
  - .EVE~has case metadata information(*No Answer*)
- . EnCase Output Formats
  - a. Five Major Categories
  - b. ProDiscover Report
  - c. **CORRECT:** Types of The Formats ProDiscover Creates
- 9. -electronically erasable programmable read-only memory
  - how phones store system data

-enables service providers to reprogram phones without having to physically access memory chips

-OS is stored in ROM: nonvolatile memory(*No Answer*)

- . Partition
  - a. file system
  - b. **CORRECT: EEPROM**
  - c. SIM Cards

10. -file manipulation: file names and extensions/ hidden property

-disk manipulation: hidden partitions/bad clusters

-encryption: bit shifting/stenography(*No Answer*)

- . Windows Registry
  - a. Examination Plan
  - b. Virtual Machine
  - c. **CORRECT: Data-hiding Techniques**

11. -gives us a road map to data on a disk

-type of file system an OS used determines how data is stored on the disk(*No Answer*)

- . **CORRECT: file system**
  - a. Drive Slack
  - b. EEPROM
  - c. SIM Cards

12. -the main concerns with mobile devices are loss of power and synchronization with PC's or the cloud (wired or wireless).

-all mobile devices have volatile memory that may contain valuable information: making sure they don't lose power before you can retrieve RAM data is critical.

-isolated the device from incoming signals with one of the following options: shielded container (paint can, enclosures), use the Faraday Bag, use eight layers of anti-static bags, aluminum foil.

-if device is not isolated, the data of the device will continue to change while in custody of the specialist.(*No Answer*)

- . Additional SIM Card Purposes
  - a. Network Forensics
  - b. **CORRECT:** Acquisition Procedures for Mobile Devices
  - c. Challenges With Mobile Devices

13. -acquisition~preservation~collection

-validation~discrimination~culling

~examination~extraction~review

~reconstruction~analysis

~reporting~presentation~production(*No Answer*)

- . Network Forensics
  - a. **CORRECT:** Five Major Categories
  - b. SIM Cards
  - c. Write Blockers

14. -a database that stores hardware and software configuration information, network connections, user preferences, and setup information.

-can contain valuable info about current/past applications and user created information(*No Answer*)

- . SIM Cards
  - a. **CORRECT:** Windows Registry
  - b. file system
  - c. Write Blockers

15. -unused space in a cluster between the end of an active file and the end of a cluster. (Includes RAM slack and file slack)(*No Answer*)

- . SIM Cards
  - a. file system

- b. Write Blockers
- c. **CORRECT:** Drive Slack

16. -subscribers identity module cards

-found most commonly in GSM devices

-microprocessor and from 16KB to 4MB EEPROM

-GSM refers to mobile phones as "mobile station" and divides a station into two parts: the sim card and the mobile equipment and common network in global networks

-portability of information makes SIM cards versatile(*No Answer*)

- . EEPROM
  - a. PDA's
  - b. **CORRECT:** SIM Cards
  - c. Drive Slack

17. -EnCase (E01)

-RAW (DD)

-SMART (S01)

-Sleuth Kit (AFF)(*No Answer*)

- . Five Major Categories
  - a. **CORRECT:** Different FTK Output Formats
  - b. EnCase Output Formats
  - c. Network Forensics

18. -How long a piece of information lasts on a system versus data that must be collected and preserved before its lost, corrupted, or backed up.

Order:

- 1-live network devices (switches/routers)
- 2-live computers/laptops (RAM and processes)
- 3-live other devices (smartphones, PDA's)

4-Devices/computers already OFF

5-Removable media/cables-adapters/documents(*No Answer*)

. **CORRECT:** Order of Volatility

- a. Partition
- b. Drive Slack
- c. Network Forensics

19. -devices are 'live' computers; traditional "stand-alone OFF computers" approach may be inadequate

-devices are connected to 'live' wireless networks; traditional "disconnect" or "segregate" approach network forensics may be inadequate

-devices lack hardware, software and operating system standardization; many variables affect forensic and eDiscovery techniques and analysis results.

-devices are dynamic in location; communications and operability; computers are mostly static.*(No Answer)*

. **CORRECT:** Challenges With Mobile Devices

- a. Write Blockers
- b. Network Forensics
- c. Acquisition Procedures for Mobile Devices

20. -analog

-digital personal communications service (PC's)

-third-generation (3G and 4G): increased bandwidth

\*continuing to evolve*(No Answer)*

. Data-hiding Techniques

- a. **CORRECT:** Three Generations of Mobile Phone Technology
- b. Order of Volatility
- c. Challenges With Mobile Devices

21. -identifies the subscriber to the network

-stores personal information

-stores address books and messages

-stores service-related information(*No Answer*)

- . Five Major Categories
  - a. ProDiscover Report
  - b. **CORRECT:** Additional SIM Card Purposes
  - c. SIM Cards

22. -hardware utilized for protecting source/hard drive from data alteration/tampering while collecting, preserving, and reviewing CSI.

-prevents operating systems and computer programs from making "writes" to the hard drive being acquired, examined, or analyzed.

-write blockers sits between the suspect/source drive and your analysis computer. (It is usually a hardware device, but software based write blockers may be utilized.*(No Answer)*

- . file system
  - a. Drive Slack
  - b. SIM Cards
  - c. **CORRECT:** Write Blockers

23. primary Windows based:

-EnCase

-Forensic Tool Kit (FTK)

-ProDiscover

-OSForensics

primarily Linux based:

-Sleuth Kit and Autopsy

-Helix

-Knoppix STD

-SMART(*No Answer*)

- . Computer Forensic and EDiscovery Tool Needs

- a. **CORRECT:** Computer Forensic Software Tools
  - b. Network Forensics
  - c. Mobile Forensics Equipment
24. -SIM card readers: a combination hardware/software device used to access the SIM card. You need to be in a forensic lab equip with appropriate anti-static devices.

-general forensic procedure for SIM cards:

- 1-remove the back panel of device
- 2-remove the battery
- 3-remove the SIM card
- 4-insert the SIM card into the card reader
- 5-extract relevant information

-a variety of SIM card readers are on the market: some are forensically sound and some are not

-documenting messages that haven't been read yet is critical: use a video camera to capture each screen, if data cannot be extracted with forensic hardware/software

-mobile forensic tools and utilities:

- Ramsey forensic text enclosure (hardware)
- SIM card reader (hardware)
- Paraben Device Seizure (software)
- BitPim (software)
- Susteen SecureView (software)
- EnCase and FTK (software)(*No Answer*)

- . file system
  - a. Network Forensics
  - b. **CORRECT:** Mobile Forensics Equipment
  - c. Computer Forensic Software Tools

25. -EX01

-E01 (Legacy)(*No Answer*)

- . **CORRECT:** EnCase Output Formats
  - a. Different FTK Output Formats
  - b. EEPROM

c. Network Forensics

26. look for versatility, flexibility, and robustness:

- Lab OS
- File System
- Automated Features
- Venders Reputation
- Acceptance by forensic community
- documented testing and validation

-Keep in mind what application files and operating system you'd be analyzing(*No Answer*)

. **CORRECT:** Computer Forensic and EDiscovery Tool Needs

- a. Mobile Forensics Equipment
- b. Types of The Formats ProDiscover Creates
- c. Computer Forensic Software Tools

Sr.No	Questions	Correct Answer
1.	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?  a) Confidentiality b) Integrity c) Authenticity d) Availability	C
2.	CIA triad is also known as _____  a) NIC (Non-repudiation, Integrity, Confidentiality) b) AIC (Availability, Integrity, Confidentiality) c) AIN (Availability, Integrity, Non-repudiation) d) AIC (Authenticity, Integrity, Confidentiality)	B
3.	_____ of information means, only authorised users are capable of accessing the information.  a) Confidentiality b) Integrity c) Non-repudiation d) Availability	A
4.	_____ means the protection of data from modification by unknown users.  a) Confidentiality b) Integrity c) Authentication d) Non-repudiation	B
5.	When you use the word _____ it means you are protecting your data from getting disclosed.  a) Confidentiality b) Integrity c) Authentication d) Availability	A
6.	When integrity is lacking in a security system, _____ occurs.  a) Database hacking b) Data deletion c) Data tampering d) Data leakage	C
7.	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?  a) They help understanding hacking better b) They are key elements to a security breach c) They help understand security and its components better d) They help to understand the cyber-crime better	C

8.	<p>This helps in identifying the origin of information and authentic user. This referred to here as _____</p> <p>a) Confidentiality b) Integrity c) Authenticity d) Availability</p>	C
9.	<p>Data _____ is used to ensure confidentiality.</p> <p>a) Encryption b) Locking c) Deleting d) Backup</p>	A
10.	<p>Data integrity gets compromised when _____ and _____ are taken control off.</p> <p>a) Access control, file deletion b) Network, file permission c) Access control, file permission d) Network, system</p>	C
11.	<p>_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.</p> <p>a) Network Security b) Database Security c) Information Security d) Physical Security</p>	C
12.	<p>From the options below, which of them is not a threat to information security?</p> <p>a) Disaster b) Eavesdropping c) Information leakage d) Unchanged default password</p>	D
13.	<p>Compromising confidential information comes under _____</p> <p>a) Bug b) Threat c) Vulnerability d) Attack</p>	B
14.	<p>Which of the following are not security policies?</p> <p>a)Regulatory b)Advisory c)Availability d)User Policies</p>	C

15.	Examples of User Policies is/are:  a)Password Policies b)Internet Usage c)System Use d)All of the above	D
16.	_____ Policy ensures that the organization is maintaining standards set by specific industry regulation.  a)Regulatory b)Advisory c)Availability d>User Policies	A
17.	_____ Policy is like standards rules and regulations set by the management to advise their employees on their activity or behavior  a)Regulatory b)Advisory c)Availability d>User Policies	B
18.	What defines the restrictions on employees such as usage?  a)Regulatory b)Advisory c)Availability d>User Policies	D
19.	The full form of OSI is OSI model is _____  a) Open Systems Interconnection b) Open Software Interconnection c) Open Systems Internet d) Open Software Internet	A
20.	In _____ layer, vulnerabilities are directly associated with physical access to networks and hardware.  a) physical b) data-link c) network d) application	A
21.	Loss of power and unauthorized change in the functional unit of hardware comes under problems and issues of the physical layer.  a) True b) False	A

22.	Which of the following attack can actively modify communications or data?  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	C
23.	OSI architecture mainly focuses on:  1) Security Attack 2) Security Techniques/Mechanisms 3) Categories of Security Service  a)1 b)1 &3 c) 2& 3 d)1,2,3	D
24.	IT security department must periodically check for security logs and entries made during office hours.  a) True b) False	A
25.	Release of Message Content and Traffic analysis are type of :  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	D
26.	If communication between 2 people is overheard by a third person without manipulation of any data, it is called as:  a) Release of Message Content-Passive Attack b) Traffic analysis -Passive Attacks c) Release of Message Content- Active Attacks d) Traffic analysis -Active Attacks	A
27.	If communication between 2 people is overheard by a third person without extraction of any data, it is called as:  a) Release of Message Content-Passive Attack b) Traffic analysis -Passive Attacks c) Release of Message Content- Active Attacks d) Traffic analysis -Active Attacks	D
28.	No modification of data is a characteristic of  a)Active Attack b)Passive Attack	A
29.	Which of the following are Active attack types	D

	a)Masquerade b)Replay c)Modification d)All of the above	
30.	_____ means when an attacker pretends to be authentic user  a)Masquerade b)Replay c)Modification d)Traffic analysis	A
31.	_____ attack is when original data is modified and malicious data is inserted  a)Masquerade b)Replay(Rewrite) c)Modification d)Traffic analysis	B
32.	When original data is changed to make it non-meaningful by attacker it is known as  a)Masquerade b)Replay c)Modification of Messages d)Traffic analysis	C
33.	Which is the type of attack when Network is made unavailable for user  a)Masquerade b)Replay c)Modification d)Denial of Service	D
34.	Modification of Data is done in:  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	A
35.	The information that gets transformed in encryption is  a) Plain text b) Parallel text c) Encrypted text d) Decrypted text	A
36.	1. The process of transforming plain text into unreadable text.	B

	a) Decryption b) Encryption c) Network Security d) Information Hiding	
37.	A process of making the encrypted text readable again.  a) Decryption b) Encryption c) Network Security d) Information Hiding	A
38.	A unique piece of information that is used in encryption.  a) Cipher b) Plain Text c) Key d) Cipher	C
39.	Assurance that authentic user is taking part in communication is:  a)Authentication b)Authorization c)Access Control d)Auditing	A
40.	ATM pin while withdrawing money is an example of using:  a)Authentication b)Authorization c)Access Control d)Auditing	B
41.	Study of creating a d using encryption and decryption techniques.  a) Cipher b) Cryptography c) Encryption d) Decryption	B
42.	An attack in which the user receives unwanted amount of e-mails.  a) Smurfing b) Denial of service c) E-mail bombing d) Ping storm	C
43.	The process of disguising plaintext in such a way that its substance gets hidden (into what is known as cipher-text) is called	D

	a) cryptanalysis b) decryption c) reverse engineering d) encryption	
44.	In _____ same keys are implemented for encrypting as well as decrypting the information.  a) Symmetric Key Encryption b) Asymmetric Key Encryption c) Asymmetric Key Decryption d) Hash-based Key Encryption	A
45.	The procedure to add bits to the last block is termed as _____  a) decryption b) hashing c) tuning d) padding	D
46.	In asymmetric key cryptography, the private key is kept by _____  a) sender b) receiver c) sender and receiver d) all the connected devices to the network	B
47.	Cryptanalysis is used _____ a) to find some insecurity in a cryptographic scheme b) to increase the speed c) to encrypt the data d) to make new ciphers	A
48.	Conventional cryptography is also known as _____ or symmetric-key encryption.  a) secret-key b) public key c) protected key d) primary key	A
49.	_____ is the art & science of cracking the cipher-text without knowing the key.  a) Cracking b) Cryptanalysis c) Cryptography d) Crypto-hacking	B
50.	In _____ a sequence of actions is carried out on this block after a block of plain-text bits is chosen for generating a block of cipher-text bits.	A

- |  |   |  |
|--|---|--|
|  | a) Block Cipher<br>b) One-time pad<br>c) Hash functions<br>d) Vigenere Cipher |  |
|--|---|--|

- a) Block Cipher
- b) One-time pad
- c) Hash functions
- d) Vigenere Cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a threat to information security?
((OPTION_A)) THIS IS MANDATORY OPTION	Disaster
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Eavesdropping
((OPTION_C)) This is optional	Information leakage
((OPTION_D)) This is optional	Unchanged default password
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Disaster, eavesdropping and information leakage come under information security threats whereas not changing the default password of any system, hardware or any software comes under the category of vulnerabilities that the user may pose to its system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compromising confidential information comes under
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	Threats are anything that may cause damage or harm to a computer system, individual or any information. Compromising of confidential information means extracting out sensitive data from a system by illegal manner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Lack of access control policy is a
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Access control policies are incorporated to a security system for restricting of unauthorised access to any logical or physical system. Every security compliance program must need this as a fundamental component. Those systems which lack this feature is vulnerable.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Possible threat to any information cannot be
((OPTION_A)) THIS IS MANDATORY OPTION	reduced
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transferred
((OPTION_C)) This is optional	protected
((OPTION_D)) This is optional	ignored
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	When there lies a threat to any system, safeguards can be implemented, outsourced, distributed or transferred to some other system, protected using security tools and techniques but cannot be ignored.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?
((OPTION_A))  THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))  This is optional	Authenticity
((OPTION_D))  This is optional	Availability
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	According to the CIA triad the three components that a security need is the Confidentiality, Integrity, Availability (as in short read as

		
CIA).		

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When you use the word _____ it means you are protecting your data from getting disclosed.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	

((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Confidentiality is what every individual prefer in terms of physical privacy as well as digital privacy. This term means our information needs to be protected from getting disclose to unauthorised parties, for which we use different security mechanisms like password protection, biometric security, OTPs (One Time Passwords) etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ means the protection of data from modification by unknown users.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Non-repudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	A information only seems valuable if it is correct and do not get modified during its journey in the course of arrival. The element integrity makes sure that the data sent or generated from other end is correct and is not modified by any unauthorised party in between.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When integrity is lacking in a security system, _____ occurs.
((OPTION_A)) THIS IS MANDATORY OPTION	Database hacking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data deletion
((OPTION_C)) This is optional	Data tampering
((OPTION_D)) This is optional	Data leakage
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The term data tampering is used when integrity is compromised in any security model and checking its integrity later becomes costlier. Example: let suppose you sent \$50 to an authorised person and in between a Man in the Middle (MiTM) attack takes place and the value has tampered to \$500. This is how integrity is compromised.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	of information means, only authorised users are capable of accessing the information.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional.	

If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Information seems useful only when right people (authorised users) access it after going through proper authenticity check. The key element availability ensures that only authorised users are able to access the information.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
((OPTION_A)) THIS IS MANDATORY OPTION	They help understanding hacking better
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	They are key elements to a security breach
((OPTION_C)) This is optional	They help understands security and its components better
((OPTION_D)) This is optional	They help to understand the cyber-crime better
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The four elements of security viz. confidentiality, integrity, authenticity & availability helps in better understanding the pillars of security and its different components.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This helps in identifying the origin of information and authentic user. This referred to here as
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The key element, authenticity helps in assuring the fact that the information is from the original source.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data _____ is used to ensure confidentiality.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Locking
((OPTION_C)) This is optional	Deleting
((OPTION_D)) This is optional	Backup
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Data encryption is the method of converting plain text to cipher-text and only authorised users can decrypt the message back to plain text. This preserves the confidentiality of data

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is not a proper method of maintaining AUTHENTICATION?
((OPTION_A)) THIS IS MANDATORY OPTION	Biometric verification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ID and password based verification
((OPTION_C)) This is optional	2-factor authentication
((OPTION_D)) This is optional	switching off the phone
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Switching off the phone in the fear of preserving the confidentiality of data is not a proper solution for data confidentiality. Fingerprint detection, face recognition, password-based authentication, two-step verifications are some of these.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data integrity gets compromised when _____ and _____ are taken control off.
((OPTION_A)) THIS IS MANDATORY OPTION	Access control, file deletion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Network, file permission
((OPTION_C)) This is optional	Access control, file permission
((OPTION_D)) This is optional	Network, system

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The two key ingredients that need to be kept safe are: access control & file permission in order to preserve data integrity.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One common way to maintain data availability is
((OPTION_A)) THIS IS MANDATORY OPTION	Data clustering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data backup
((OPTION_C)) This is optional	Data recovery
((OPTION_D)) This is optional	Data Altering

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	For preventing data from data-loss, or damage data backup can be done and stored in a different geographical location so that it can sustain its data from natural disasters & unpredictable events.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hackers who help in finding bugs and vulnerabilities in a system & don't intend to crack a system are termed as
((OPTION_A)) THIS IS MANDATORY OPTION	Black Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Grey Hat Hackers
((OPTION_D)) This is optional	Red Hat Hackers

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	White Hat Hackers are cyber security analysts and consultants who have the intent to help firms and Governments in the identification of loopholes as well as help to perform penetration tests for securing a system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the legal form of hacking based on which jobs are provided in IT industries and firms?
((OPTION_A)) THIS IS MANDATORY OPTION	Cracking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Non ethical Hacking
((OPTION_C)) This is optional	Ethical hacking
((OPTION_D))	Hactivism

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Ethical Hacking is an ethical form of hacking done by white-hat hackers for performing penetration tests and identifying potential threats in any organizations and firms.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	They are nefarious hackers, and their main motive is to gain financial profit by doing cyber crimes. Who are "they" referred to here?
((OPTION_A)) THIS IS MANDATORY OPTION	Gray Hat Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Hactivists
((OPTION_D))	Black Hat Hackers

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Black Hat hackers also termed as 'crackers' and are a major type of cyber criminals who take unauthorized access in user's account or system and steal sensitive data or inject malware into the system for their profit or to harm the organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are the combination of both white as well as black hat hackers.
((OPTION_A)) THIS IS MANDATORY OPTION	Grey Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Green Hat hackers
((OPTION_C)) This is optional	Blue Hat Hackers

((OPTION_D)) This is optional	Red Hat Hacker
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Grey Hat Hackers have a blending character of both ethical as well as un-ethical hacker. They hack other's systems for fun but do not harm the system, exploits bugs and vulnerabilities in network without the knowledge of the admin or the owner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The amateur or newbie in the field of hacking who don't have many skills about coding and in-depth working of security and hacking tools are called _____
((OPTION_A)) THIS IS MANDATORY OPTION	Sponsored Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hactivists
((OPTION_C))	Script Kiddies

This is optional	
((OPTION_D))	Whistle Blowers
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Script Kiddies are new to hacking and at the same time do not have many interests in developing coding skills or find bugs of their own in systems; rather they prefer downloading of available tools (developed by elite hackers) and use them to break any system or network. They just try to gain attention of their friend circles.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suicide Hackers are those _____
((OPTION_A)) THIS IS MANDATORY OPTION	who break a system for some specific purpose with or without keeping in mind that they may suffer long term imprisonment due to their malicious activity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	individuals with no knowledge of codes but an expert in using hacking tools

((OPTION_C)) This is optional	who know the consequences of their hacking activities and hence try to prevent them by erasing their digital footprints
((OPTION_D)) This is optional	who are employed in an organization to do malicious activities on other firms
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Suicide hackers are those who break into any network or system with or without knowing the consequences of the cyber crime and its penalty. There are some suicide hackers who intentionally do crimes and get caught to bring their names in the headlines.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Criminal minded individuals who work for terrorist organizations and steal information of nations and other secret intelligence are _____
((OPTION_A)) THIS IS MANDATORY OPTION	State sponsored hackers
((OPTION_B)) THIS IS ALSO MANDATORY	Blue Hat Hackers

OPTION	
((OPTION_C)) This is optional	Cyber Terrorists
((OPTION_D)) This is optional	Red Hat Hackers
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Cyber Terrorists are very expert programmers and cyber criminals who hide themselves while doing malicious activities over the internet and they are smart enough to hide themselves or their tracks of action. They are hired for gaining unauthorised access to nation's data centres or break into the network of intelligence agencies.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are those individuals who maintain and handles IT security in any firm or organization.
((OPTION_A)) THIS IS MANDATORY OPTION	IT Security Engineer
((OPTION_B))	Cyber Security Interns

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Software Security Specialist
((OPTION_D)) This is optional	Security Auditor
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is an intermediary level of position of an individual in an organization or firm who builds and preserves different systems and its associated security tools of the firm of organization to which he/she belongs.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Role of security auditor is to _____
((OPTION_A)) THIS IS MANDATORY OPTION	secure the network

((OPTION_B)) THIS IS ALSO MANDATORY OPTION	probe for safety and security of organization's security components and systems
((OPTION_C)) This is optional	detects and prevents cyber attacks and threats to organization
((OPTION_D)) This is optional	does penetration testing on different web applications
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Security auditors are those who conduct auditing of various computer and network systems on an organization or company and reports the safety and security issues as well as helps in suggesting improvements or enhancements in any particular system that is threat prone.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are senior level corporate employees who have the role and responsibilities of creating and designing secured network or security structures.
((OPTION_A)) THIS IS MANDATORY	Ethical Hackers

OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Chief Technical Officer
((OPTION_C)) This is optional	IT Security Engineers
((OPTION_D)) This is optional	Security Architect
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Security architect are those senior grade employees of an organization who are in charge of building, designing, implementing and testing of secured network topologies, protocols as well as secured computers in an organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Governments hired some highly skilled hackers. These types of hackers are termed as _____
((OPTION_A)) THIS IS	Special Hackers

MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Government Hackers
((OPTION_C))  This is optional	Cyber Intelligence Agents
((OPTION_D))  This is optional	Nation / State sponsored hackers
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Nation / State sponsored hackers are specific individuals who are employed or hired by the government of that nation or state and protect the nation from cyber terrorists and other groups or individuals and to reveal their plans, communications and actions.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The full form of Malware is _____
((OPTION_A))	Malfunctioned Software

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Multipurpose Software
((OPTION_C))  This is optional	) Malicious Software
((OPTION_D))  This is optional	Malfunctioning of Security
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Different types of harmful software and programs that can pose threats to a system, network or anything related to cyberspace are termed as Malware. Examples of some common malware are Virus, Trojans, Ransomware, spyware, worms, rootkits etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who deploy Malwares to a system or network?

((OPTION_A)) THIS IS MANDATORY OPTION	Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Criminal organizations, gray hat hackers, Malware developers, Penetration testers
((OPTION_C)) This is optional	) Criminal organizations, Black hat hackers, software developers, cyber-terrorists
((OPTION_D)) This is optional	Criminal organizations, White hat hackers, malware developers, cyber-terrorists
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Criminal-minded organizations, groups and individuals cyber-terrorist groups, Black hat hackers, malware developers etc are those who can deploy malwares to any target system or network in order to deface that system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	_____ is a code injecting method used for attacking the database of a system / website.

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	HTML injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SQL Injection
((OPTION_C)) This is optional	Malicious code injection
((OPTION_D)) This is optional	XML Injection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	SQLi (Structured Query Language Injection) is a popular attack where SQL code is targeted or injected; for breaking the web application having SQL vulnerabilities. This allows the attacker to run malicious code and take access to the database of that server.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN	This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here?

CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	SQL injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	HTML Injection
((OPTION_C)) This is optional	Cross Site Scripting (XSS)
((OPTION_D)) This is optional	Cross Site Request Forgery (XSRF)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	XSS attack can be infused by putting the malicious code (which gets automatically run) in any comment section or feedback section of any webpage (usually a blogging page). This can hamper the reputation of a site and the attacker may place any private data or personal credentials.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cyber-crime
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cyber Attack
((OPTION_C)) This is optional	System hijacking
((OPTION_D)) This is optional	Digital crime
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cyber attack is an umbrella term used to classify different computer & network attacks or activities such as extortion, identity theft, email hacking, digital spying, stealing hardware, mobile hacking and physical security breaching.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a set of conventions & rules set for communicating two or more devices residing in the same network?
((OPTION_A))  THIS IS MANDATORY OPTION	Security policies
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Protocols
((OPTION_C))  This is optional	Wireless network
((OPTION_D))  This is optional	Network algorithms
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Network protocols are designed with mechanisms for identifying devices and make connections between them. In addition, some proper rules are defined as to how data packets will be sent and received.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The field that covers a variety of computer networks, both public and private, that are used in everyday jobs
((OPTION_A)) THIS IS MANDATORY OPTION	Artificial Intelligence
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ML
((OPTION_C)) This is optional	Network Security
((OPTION_D)) This is optional	IT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Network security covers a variety of computer networks, both private and public. Everyday jobs like conducting transactions and communications among business and government agencies etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network Security provides authentication and access control for resources.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is not an objective of network security?
((OPTION_A)) THIS IS MANDATORY OPTION	Identification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	Access control
((OPTION_D)) This is optional	Lock
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The Identification, Authentication and Access control are the objectives of network security. There is no such thing called lock.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is a part of network identification?
((OPTION_A)) THIS IS MANDATORY OPTION	UserID
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Password
((OPTION_C)) This is optional	OTP
((OPTION_D)) This is optional	fingerprint
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The answer is UserID. UserID is a part of identification. UserID can be a combination of username, user student number etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of verifying the identity of a user.
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Verification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	It is called an authentication. It is typically based on passwords, smart card, fingerprint, etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security features that control that can access resources in the OS
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Access control
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Access control refers to the security features. Applications call access control to provide resources

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm in encryption is called
((OPTION_A)) THIS IS MANDATORY OPTION	Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Procedure
((OPTION_C)) This is optional	Cipher
((OPTION_D)) This is optional	Module
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	An algorithm used in encryption is referred to as a cipher. cipher is an algorithm for performing encryption or decryption

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The information that gets transformed in encryption is
((OPTION_A)) THIS IS MANDATORY OPTION	Plain text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Parallel text
((OPTION_C)) This is optional	Encrypted text
((OPTION_D)) This is optional	Decrypted text
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The text that gets transformed is called plain text. The algorithm used is called cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The type of threats on the security of a computer system or network are..... i) Interruption ii) Interception iii) Modification iv) Creation v) Fabrication
((OPTION_A)) THIS IS MANDATORY OPTION	i, ii, iii and iv only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii, iii, iv and v only
((OPTION_C)) This is optional	i, ii, iii and v only
((OPTION_D)) This is optional	All i, ii, iii, iv and v
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is computer threat?
((OPTION_A))  THIS IS MANDATORY OPTION	Phishing
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Soliciting
((OPTION_C))  This is optional	DoS attack
((OPTION_D))  This is optional	stalking
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a term used in cryptography that refers to a message before encryption or after decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PLAIN TEXT
((OPTION_C)) This is optional	Original text
((OPTION_D)) This is optional	Plain script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ is encrypted text
((OPTION_A)) THIS IS MANDATORY OPTION	cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cipher script
((OPTION_C)) This is optional	secret text
((OPTION_D)) This is optional	secret script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An _____ along with a key is used in the encryption
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption algorithm
((OPTION_C)) This is optional	encryption algorithm
((OPTION_D)) This is optional	plain text algorithm
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that sensitive information are accessed only by an authorized person and kept away from those not authorized to possess them.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Cryptography
((OPTION_D)) This is optional	Integrity
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information are in a format that is true and correct to its original purposes.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	integrity
((OPTION_D)) This is optional	cryptography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information and resources are available to those who need them.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Availability</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Confidentiality</b>
((OPTION_C)) This is optional	<b>Cryptography</b>
((OPTION_D)) This is optional	<b>Integrity</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of identifying an individual, usually based on a username and password.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither authentication nor authorization</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of giving individuals access to system objects based on their identity.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither congestion control nor quality of service</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	when someone gains access to a server, website, or other sensitive data using someone else's account details called as
((OPTION_A)) THIS IS MANDATORY OPTION	Authorized access
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Access control
((OPTION_C)) This is optional	Unauthorized access
((OPTION_D)) This is optional	access
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Person who tries and exploits a computer system for a reason which can be money, a social cause, fun etc.called as
((OPTION_A)) THIS IS MANDATORY OPTION	Thief
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	hacker
((OPTION_C)) This is optional	attacker
((OPTION_D)) This is optional	criminal
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is an action or event that might compromise the security.
((OPTION_A))  THIS IS MANDATORY OPTION	Threat
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C))  This is optional	Protect
((OPTION_D))  This is optional	attack
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a weakness, a design problem or implementation error in a system that can lead to an unexpected and undesirable event regarding security system
((OPTION_A)) THIS IS MANDATORY OPTION	threat
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C)) This is optional	Attack
((OPTION_D)) This is optional	Protection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a software that operates on different OS which is used to prevent from malicious software.
((OPTION_A)) THIS IS MANDATORY OPTION	Anti virus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	virus
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	risk
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a technique that a hacker uses to stole data by a person for different purposes by psychological manipulation combined with social scenes.
((OPTION_A)) THIS IS MANDATORY OPTION	Social Engineering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IT engineering
((OPTION_C)) This is optional	Psycology
((OPTION_D)) This is optional	Social engineering
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is a software or hardware which is used to filter network traffic based on rules.
((OPTION_A)) THIS IS MANDATORY OPTION	antivirus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firewall
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	keylogger
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not Basic Functions of Antivirus Engines
((OPTION_A)) THIS IS MANDATORY OPTION	Scanning
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity Checking
((OPTION_C)) This is optional	Interception
((OPTION_D)) This is optional	Evesdropping
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is name of antivirus
((OPTION_A))  THIS IS MANDATORY OPTION	AVG
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	PAN
((OPTION_C))  This is optional	SACK
((OPTION_D))  This is optional	FIREP
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hacking tools that can be found very easily by everyone just by googling and they are endless.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Potential Losses due to Security Attacks doesn't involve _____
((OPTION_A)) THIS IS MANDATORY OPTION	Losing your data
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Bad usage of your computer resources
((OPTION_C)) This is optional	Reputation gain
((OPTION_D)) This is optional	Identity theft
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Reputation loss is part of it and not gain

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not malware category?
((OPTION_A))  THIS IS MANDATORY OPTION	Worms
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Viruses
((OPTION_C))  This is optional	Trojans
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	All are malware categories

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ encrypts all your data when your computer gets infected and the second is to roll back the data at a specific time you want.
((OPTION_A)) THIS IS MANDATORY OPTION	ransomware
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firmware
((OPTION_C)) This is optional	middleware
((OPTION_D)) This is optional	Cyber ware
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	this network is created between two secure network devices like two firewalls.
((OPTION_A)) THIS IS MANDATORY OPTION	LAN
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAN
((OPTION_C)) This is optional	VPN
((OPTION_D)) This is optional	WAN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Virtual private network

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Name of the attack when integrity is compromised is called as _____
((OPTION_A))  THIS IS MANDATORY OPTION	Fabrication
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	interception
((OPTION_C))  This is optional	Interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack made on confidentiality is __
((OPTION_A))  THIS IS MANDATORY OPTION	interception
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C))  This is optional	interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	an attack on availability such as a denial of service attack (or DOS)
((OPTION_A))  THIS IS MANDATORY OPTION	Interruption
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Interception
((OPTION_C))  This is optional	fabrication
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An unauthorized party inserts counterfeit objects into the system and basically attacks the authenticity of the system.
((OPTION_A)) THIS IS MANDATORY OPTION	modification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	interruption
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack in which a network service is made degraded or unavailable for legitimate use
((OPTION_A)) THIS IS MANDATORY OPTION	Interruption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is assurance that someone cannot deny something.
((OPTION_A))  THIS IS MANDATORY OPTION	availability
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	confidentiality
((OPTION_C))  This is optional	Access control
((OPTION_D))  This is optional	Non-repudiation
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the purpose of a Denial of Service attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Exploit a weakness in the TCP/IP stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	To execute a Trojan on a system
((OPTION_C))  This is optional	To overload a system so it is no longer operational
((OPTION_D))  This is optional	To shutdown services by turning them off
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	DoS attacks force systems to stop responding by overloading the processing of the system

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What are some of the most common vulnerabilities that exist in a network or system?
((OPTION_A)) THIS IS MANDATORY OPTION	Changing manufacturer, or recommended, settings of a newly installed application.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additional unused features on commercial software packages
((OPTION_C)) This is optional	Utilizing open source application code
((OPTION_D)) This is optional	Balancing security concerns with functionality and ease of use of a system.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Linux is an open source code and considered to have greater security than the commercial Windows environment

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Sniffing is used to perform _____ fingerprinting
((OPTION_A))  THIS IS MANDATORY OPTION	Passive stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active stack
((OPTION_C))  This is optional	Passive banner grabbing
((OPTION_D))  This is optional	Scanned
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Passive stack fingerprinting uses sniffing technologies instead of scanning

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a principle of data security?
((OPTION_A)) THIS IS MANDATORY OPTION	Data Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following attacks is a passive attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Masquerade
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Modification of message
((OPTION_C))  This is optional	Denial of service
((OPTION_D))  This is optional	Traffic analysis
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	In a passive attack, the attacker does not modify any part of the data. His attempt is only to obtain the information and not to modify it. From the mentioned options, this happens only in Traffic analysis in which the attacker monitors the pattern of transmission. The rest other options are examples of active attacks.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options correctly defines the Brute force attack?
((OPTION_A)) THIS IS MANDATORY OPTION	Brutally forcing the user to share the useful information like pins and passwords.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Trying every possible key to decrypt the message.
((OPTION_C)) This is optional	One entity pretends to be some other entity
((OPTION_D)) This is optional	The message or information is modified before sending it to the receiver.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"A key is a string of bits used by a cryptographic algorithm to transform plain text into ciphertext." Which of the following is capable of becoming a key in a cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	Integer value
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Square matrix
((OPTION_C)) This is optional	An array of characters
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	measures taken by any enterprise or organisation to secure its computer network and data using both hardware and software systems is called as
((OPTION_A)) THIS IS MANDATORY OPTION	Network security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Information security
((OPTION_C)) This is optional	Cyber security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	phishing and pre-texting is part of _____
((OPTION_A)) THIS IS MANDATORY OPTION	<b>NETWORK SECURITY</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>CYBER SECURITY</b>
((OPTION_C)) This is optional	Internet security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures to protect the transit data only.
((OPTION_A)) THIS IS MANDATORY OPTION	NETWORK SECURITY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet security
((OPTION_C)) This is optional	Information security
((OPTION_D)) This is optional	Cyber security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is danger for <b>Integrity</b> as well as <b>availability</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is danger for <b>Confidentiality</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ attack attention is on detection.
((OPTION_A))  THIS IS MANDATORY OPTION	Passive attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active Attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ attack attention is on prevention.
((OPTION_A))  THIS IS MANDATORY OPTION	Active attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Due to ___ attack system is always damaged.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	Both active and passive
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	due to _____ attack, there is no any harm to the system.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack is tough to restrict from entering systems or networks.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Attack is easy to prohibited in comparison to _____ attack.
((OPTION_A)) THIS IS MANDATORY OPTION	Active,passive
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive,active
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not active attack
((OPTION_A)) THIS IS MANDATORY OPTION	Denial of service (DoS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	replay
((OPTION_C)) This is optional	Trojans
((OPTION_D)) This is optional	traffic analysis
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In __ <b>attack</b> , an attacker tries to modify the content of the messages.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ <b>attack</b> , an attacker observes the messages, copy them and may use them for malicious purposes
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is state of being free from potential threats or dangers
((OPTION_A)) THIS IS MANDATORY OPTION	privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	freedom
((OPTION_C)) This is optional	security
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ refers to the state of being free from unwanted attention.
((OPTION_A)) THIS IS MANDATORY OPTION	Freedom
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Privacy
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ can be achieved without _____ but _____ cannot be achieved without _____.
((OPTION_A)) THIS IS MANDATORY OPTION	Security,privacy,privacy security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy,security,security,privacy
((OPTION_C)) This is optional	Security,privacy,privacy,privacy
((OPTION_D)) This is optional	Security,security,privacy,security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program refers to a set of protocols and regulations set in place to protect all the confidential information assets and resources that an organization collects and owns.
((OPTION_A)) THIS IS MANDATORY OPTION	Privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program focuses on protecting only personal information such as log in credentials, passwords, etc.
((OPTION_A)) THIS IS MANDATORY OPTION	Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following Algorithms does not belong to symmetric encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	3DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	RC5
((OPTION_D)) This is optional	IDEA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Assymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?
((OPTION_A)) THIS IS MANDATORY OPTION	Not true, the message can also be decrypted with the Public Key.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A so called "one way function with back door" is applied for the encryption
((OPTION_C)) This is optional	The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.
((OPTION_D)) This is optional	The encrypted message contains the function for decryption which identifies the Private Key.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	An one-way function is a function which a computer can calculate quickly, but whose reversal would last months or years. An one-way function with back door can be reversed with the help of a couple of additional information (the back door), but scarcely

	without this information. The information for the back door is contained in the private Key.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the largest disadvantage of the symmetric Encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	More complex and therefore more time-consuming calculations.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Problem of the secure transmission of the Secret Key
((OPTION_C)) This is optional	Less secure encryption function.
((OPTION_D)) This is optional	Isn't used any more
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION))	As there is only one key in the symmetrical encryption, this must

)) This is also optional	be known by both sender and recipient and this key is sufficient to decrypt the secret message. Therefore it must be exchanged between sender and receiver in such a manner that an unauthorized person can in no case take possession of it.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the principle of the encryption using a key?
((OPTION_A)) THIS IS MANDATORY OPTION	The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	The key contains the secret function for encryption including parameters. Only a password can activate the key.
((OPTION_C)) This is optional	All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.
((OPTION_D)) This is optional	The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	C

E	
((EXPLANATION)) This is also optional	The encoding of a message is calculated by an algorithm. If always the same algorithm would be used, it would be easy to crack intercepted messages. However, it isn't possible to invent a new algorithm whenever the old one was cracked, therefor the possibility to parameterize algorithms is needed and this is the assignment of the key. All algorithms must be public, only the keys are secret (principle of Kerckhoff, Dutch cryptographer during 19th century).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If the sender and receiver use different keys, the system is referred to as conventional cipher system
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Such a system is called asymmetric, two-key, or public-key cipher system

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Use Caesar's Cipher to decipher the following HQFUBSWHG WHAW
((OPTION_A)) THIS IS MANDATORY OPTION	ABANDONED LOCK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ENCRYPTED TEXT
((OPTION_C)) This is optional	ABANDONED TEXT
((OPTION_D)) This is optional	ENCRYPTED LOCK
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher uses $C = (p+3) \text{ mod } 26$ to encrypt.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Caesar Cipher is an example of
((OPTION_A)) THIS IS MANDATORY OPTION	Poly-alphabetic Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Mono-alphabetic Cipher
((OPTION_C)) This is optional	Multi-alphabetic Cipher
((OPTION_D)) This is optional	Bi-alphabetic Cipher
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher is an example of Mono-alphabetic cipher, as single alphabets are encrypted or decrypted at a time.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Monoalphabetic ciphers are easier to break because they reflect the frequency of the original alphabet.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis
((OPTION_A)) THIS IS MANDATORY OPTION	Random Polyalphabetic, Plaintext, Playfair
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Random Polyalphabetic, Playfair, Vignere
((OPTION_C)) This is optional	Random Polyalphabetic, Vignere, Playfair, Plaintext
((OPTION_D)) This is optional	Random Polyalphabetic, Plaintext, Beaufort, Playfair
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Random Polyalphabetic is the most resistant to frequency analysis, followed by Vignere, Playfair and then Plaintext.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-
((OPTION_A)) THIS IS MANDATORY OPTION	abqdnnewuwjphfvrrtrfznsdokvl
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	abqdmwwuwjphfvyyrfznydokvl
((OPTION_C)) This is optional	tbqyrvmwuwjphfvyyrfznydokvl
((OPTION_D)) This is optional	baiuvmwuwjphfoeiyrzfznydokvl
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	nlazeiiblji
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nlazeiiblji
((OPTION_C)) This is optional	olaaeiiblki
((OPTION_D)) This is optional	mlaaeiibljk
((OPTION_E)) This is optional. If optional keep empty so that	

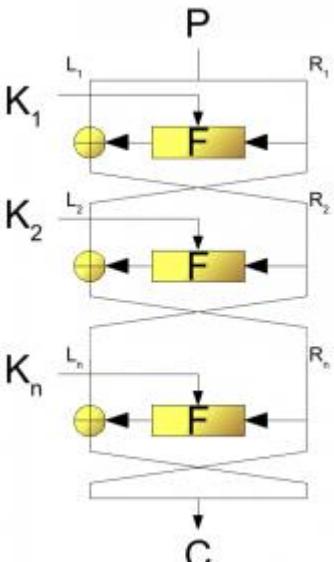
system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m$ (mod 26).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Confusion hides the relationship between the ciphertext and the plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Confusion hides the relationship between the ciphertext and the key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The S-Box is used to provide confusion, as it is dependent on the unknown key.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	false
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The S-Box is used to provide confusion, as it is dependent on the unknown key. The P-Box is fixed, and there is no confusion due to it, but it provides diffusion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This is an example of 
((OPTION_A)) THIS IS MANDATORY OPTION	SP Networks
((OPTION_B)) THIS IS ALSO MANDATORY	Feistel Cipher

OPTION	
((OPTION_C)) This is optional	Hash Algorithm
((OPTION_D)) This is optional	Hill Cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following slows the cryptographic algorithm –  1) Increase in Number of rounds 2) Decrease in Block size 3) Decrease in Key Size 4) Increase in Sub key Generation
((OPTION_A)) THIS IS MANDATORY OPTION	1 and 3
((OPTION_B)) THIS IS ALSO MANDATORY	2 and 3

OPTION	
((OPTION_C)) This is optional	3 and 4
((OPTION_D)) This is optional	2 and 4
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Increase in any of the above 4 leads to slowing of the cipher algorithm i.e. more computational time will be required.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES follows
((OPTION_A)) THIS IS MANDATORY OPTION	Hash Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY	Caesars Cipher

OPTION	
((OPTION_C)) This is optional	Feistel Cipher Structure
((OPTION_D)) This is optional	SP Network
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES Algorithm Cipher System consists of _____ rounds (iterations) each with a round key
((OPTION_A)) THIS IS MANDATORY OPTION	12
((OPTION_B)) THIS IS ALSO MANDATORY	18

OPTION	
((OPTION_C)) This is optional	9
((OPTION_D)) This is optional	16
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The DES Algorithm Cipher System consists of 16 rounds (iterations) each with a round key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES algorithm has a key length of
((OPTION_A)) THIS IS MANDATORY OPTION	128 Bits
((OPTION_B)) THIS IS ALSO MANDATORY	32 Bits

OPTION	
((OPTION_C)) This is optional	64 Bits
((OPTION_D)) This is optional	16 Bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	56 bits are used, the rest 8 bits are parity bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	48, 32
((OPTION_B)) THIS IS ALSO MANDATORY	64,32

OPTION	
((OPTION_C)) This is optional	56, 24
((OPTION_D)) This is optional	32, 32
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____
((OPTION_A)) THIS IS MANDATORY OPTION	Scaling of the existing bits
((OPTION_B)) THIS IS ALSO MANDATORY	Duplication of the existing bits

OPTION	
((OPTION_C)) This is optional	Addition of zeros
((OPTION_D)) This is optional	Addition of ones
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits. This input is first expanded to 48 bits (permutation plus an expansion), that involves duplication of 16 of the bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Initial Permutation table/matrix is of size
((OPTION_A)) THIS IS MANDATORY OPTION	$16 \times 8$
((OPTION_B)) THIS IS ALSO MANDATORY	$12 \times 8$

OPTION	
((OPTION_C)) This is optional	8×8
((OPTION_D)) This is optional	4×8
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	There are 64 bits to permute and this requires a 8×8 matrix.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The number of unique substitution boxes in DES after the 48 bit XOR operation are
((OPTION_A)) THIS IS MANDATORY OPTION	8
((OPTION_B)) THIS IS ALSO MANDATORY	4

OPTION	
((OPTION_C)) This is optional	6
((OPTION_D)) This is optional	12
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The substitution consists of a set of 8 S-boxes, each of which accepts 6 bits as input and produces 4 bits as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During decryption, we use the Inverse Initial Permutation (IP-1) before the IP.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	IP-1 is the first step and the last step is IP during decryption.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A preferable cryptographic algorithm should have a good avalanche effect.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Thus statement is true as a change in one bit of the plaintext or one bit of the key should produce a change in many bits of the ciphertext. This is referred to as the avalanche effect.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the size(in bits) of the key in the SDES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	24
((OPTION_B)) THIS IS ALSO MANDATORY	16

OPTION	
((OPTION_C)) This is optional	20
((OPTION_D)) This is optional	10
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	The size of the key in the SDES algorithm is 10 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	GCD(a,b) is the same as GCD( a , b ).
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	This is true. $\gcd(60,24) = \gcd(60,-24) = 12$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 1160718174 and 316258250 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	882
((OPTION_B)) THIS IS ALSO MANDATORY	770

OPTION	
((OPTION_C)) This is optional	1078
((OPTION_D)) This is optional	1225
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$\text{GCD}(1160718174, 316258250) = 1078$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 102947526 and 239821932 using Euclidean algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	$\text{GCD}(102947526, 239821932) = 6.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 8376238 and 1921023 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	13
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	17
((OPTION_D)) This is optional	7
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	$\text{GCD}(8376238, 1921023) = 13.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 1234 mod 4321 is
((OPTION_A)) THIS IS MANDATORY OPTION	3239
((OPTION_B)) THIS IS ALSO MANDATORY	3213

OPTION	
((OPTION_C)) This is optional	3242
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The multiplicative Inverse of 1234 mod 4321 is 3239.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 550 mod 1769 is
((OPTION_A)) THIS IS MANDATORY OPTION	434
((OPTION_B)) THIS IS ALSO MANDATORY	224

OPTION	
((OPTION_C)) This is optional	550
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The multiplicative Inverse of 550 mod 1769 is 550.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p><b>You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,</b></p> $A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$ <p><b>Is the given matrix 'A', a valid key to be used for encryption?</b></p>
((OPTION_A)) THIS IS MANDATORY OPTION	Yes
((OPTION_B))	No

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Can't be determined
((OPTION_D)) This is optional	Data insufficient
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist.</p> <p>Here, in this case,</p> $  A   = 0$ <p>Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the <a href="#">Hill cipher</a>.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	The input text is divided into two parts: one being left half and another one being right half.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Swapping of the left and right halves are performed after each round.
((OPTION_C)) This is optional	The plain text is converted into a matrix form first
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Among the following given options, chose the strongest encryption technique

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	DES ( Data Encryption Standard))
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Double DES
((OPTION_C)) This is optional	Triple DES
((OPTION_D)) This is optional	AES (Advance Encryption Standard)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	<p><b>Consider the following steps,</b></p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift Rows</li> </ul>

IMAGES ALSO	<p>iii. Mix columns iv. Add round key</p> <p><b>The above steps are performed in each round of which of the following ciphers?</b></p>
((OPTION_A))  THIS IS MANDATORY OPTION	Rail fence cipher
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data Encryption Standard (DES)
((OPTION_C))  This is optional	Advance Encryption Standard (AES)
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ algorithm transforms ciphertext to plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ cipher replaces one character with another character.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ cipher reorders the plaintext characters to create a ciphertext.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the receiver uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either a or b
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is a(n) _____ method adopted by the U.S. government.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	either (a) or (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are _____ ciphers.
((OPTION_A)) THIS IS MANDATORY OPTION	block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	stream
((OPTION_C)) This is optional	field
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ cipher, the same key is used by both the sender and receiver.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ciphers can be categorized into two broad categories: monoalphabetic and polyalphabetic.
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the sender uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a(n) _____ cipher, a pair of keys is used.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	2
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES uses a _____ bit block size and a key size of _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	128; 128 or 256
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64; 128 or 192
((OPTION_C)) This is optional	256; 128, 192, or 256
((OPTION_D)) This is optional	128; 128, 192, or 256
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	It uses a 128-bit block size and a key size of 128, 192, or 256 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Like DES, AES also uses Feistel Structure.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES does not use a Feistel structure. Instead, each full round consists of four separate functions: -byte substitution -Permutation -arithmetic operations over a finite field, and -XOR with a key.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The $4 \times 4$ byte matrices in the AES algorithm are called
((OPTION_A)) THIS IS MANDATORY OPTION	States
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Words
((OPTION_C)) This is optional	Transitions
((OPTION_D)) This is optional	Permutations
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is a type of substitution cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	poly alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition cipher
((OPTION_C)) This is optional	Columnar cipher
((OPTION_D)) This is optional	Rail fence cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In substitution cipher the plain text is replaced by cipher text according to a fixed rule. There are two types of substitution cipher- Mono alphabetic and Poly alphabetic cipher.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following correctly defines poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	a substitution based cipher which uses multiple substitution at different positions
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a substitution based cipher which uses fixed substitution over entire message
((OPTION_C)) This is optional	a transposition based cipher which uses multiple substitution at different positions
((OPTION_D)) This is optional	A transposition based cipher which uses fixed substitution over entire message
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Poly alphabetic cipher is a type of substitution cipher. It uses multiple substitution at different positions in order to cipher the plain text.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a type of poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Rotor cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hill cipher
((OPTION_C)) This is optional	One time pad cipher
((OPTION_D)) This is optional	Affine cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	In poly alphabetic cipher each symbol of plain text is replaced by a different cipher text regardless of its occurrence. Out of the given options, only affine cipher is not a poly alphabetic cipher.

((MARKS)) QUESTION IS OF	2
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	We are provided the plain text "SUN". You need to convert the given plain text into ciphertext under the Ceasar cipher encryption technique. Which of the following options is the correct ciphertext for the given text if the key is 2?
((OPTION_A)) THIS IS MANDATORY OPTION	UWP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NUS
((OPTION_C)) This is optional	WUP
((OPTION_D)) This is optional	QSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>In the Caesar cipher technique, the encryption is performed as follows,</p> $E(P, K) = (P + K) \text{ mod } 26$ <p>Therefore,</p> $E(S, 2) = (18 + 2) \text{ mod } 26 = 20 = U$ $E(U, 2) = (20 + 2) \text{ mod } 26 = 22 = W$ $E(N, 2) = (13 + 2) \text{ mod } 26 = 15 = P$ <p>Hence, the ciphertext is "UWP".</p>

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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following cipher techniques include the involvement of matrix operations in their algorithms of encryption and decryption?
((OPTION_A)) THIS IS MANDATORY OPTION	<u>Hill Cipher</u>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<u>Playfair cipher</u>
((OPTION_C)) This is optional	Both a and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also	The hill cipher includes a square matrix as the key, and in Playfair cipher, we create a 5X5 matrix using the given key string. Hence,

optional	both these ciphers include the use of matrices.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Playfair cipher is an example of _____
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C)) This is optional	transposition cipher
((OPTION_D)) This is optional	additive cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	Playfair cipher is a substitution cipher. It falls under the category of poly alphabetic cipher as it uses multiple substitution at different positions in order to cipher the plain text.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Encryption in Playfair cipher is done using _
((OPTION_A)) THIS IS MANDATORY OPTION	a 5×5 table
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a 13×2 table
((OPTION_C)) This is optional	vigenere table
((OPTION_D)) This is optional	a 6×6 table
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A

((EXPLANATION)) This is also optional	
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the plain text corresponding to cipher text "BPKYFS" if playfair cipher is used with keyword as "SECRET" (assuming j is combined with i)?
((OPTION_A))  THIS IS MANDATORY OPTION	INDIAN
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	WORLD
((OPTION_C))  This is optional	DOLLAR
((OPTION_D))  This is optional	HELLO
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C

((EXPLANATION)) This is also optional	To decrypt the message we follow the reverse procedure. The table is formed in the same manner. Applying this we get the plain text to be "DOLLAR".
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair are identical?
((OPTION_A)) THIS IS MANDATORY OPTION	then that pair is neglected
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a null(or x) is added in between the letters
((OPTION_C)) This is optional	one of the identical letter is replaced by some other letter
((OPTION_D)) This is optional	then both of the letters are replaced by the letter appearing just next in the row
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	In playfair cipher if the letters in a pair are identical then a null is added in between the letters. Any letter can be used as a null as long as that letter is not the one being repeated.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same row?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter at the corner of the row
((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	If the letters in a pair appear in same row then they are replaced by the letters appearing immediately right to them respectively. If the element to be replaced appears at the corner of the row then we wrap around to the left side of that row.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the ciphered text if the string “SANFOUNDRY” is given as input to the code of playfair cipher with keyword as “SECRET” (assuming j is combined with i)?
((OPTION_A)) THIS IS MANDATORY OPTION	ZHQAPNPAFR
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AHQAPNPAFR
((OPTION_C)) This is optional	HAQAPNPAFR
((OPTION_D)) This is optional	QHAAPNPAFR
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	B

E	
((EXPLANATION)) This is also optional	<p>For encrypting the plain text using playfair cipher we use a <math>5 \times 5</math> table that is constructed by using keyword. Then we apply rules for encryption in order to get the censored text. Table is given as under-</p> <p>S E C R T</p> <p>A B D F G</p> <p>H I K L M</p> <p>N O P Q U</p> <p>V W X Y Z</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letters at the corner of the row
((OPTION_D))	that pair is neglected

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	If the letters in a pair appear in the same column then they are replaced by the letters appearing immediately below them respectively. If the element to be replaced appears at the corner of the column then we wrap around to the top side of that column.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair does not appear in same row or column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter of the same row at the corner of the rectangle defined by the original pair respectively

((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	If the letters in a pair does not appear in same row or column then they are replaced by the letters of the same row at the corner of the rectangle defined by the original pair respectively. The order of letters should be maintained.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Columnar cipher falls under the category of?
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C))	additive cipher

This is optional	
((OPTION_D)) This is optional	Transposition cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Columnar cipher is a transposition cipher. It falls under the category of transposition cipher as it encrypts the plain text by rearranging its letters.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following ciphered text would have NOT used transposition cipher for encryption of the plain text "CIPHER"?
((OPTION_A)) THIS IS MANDATORY OPTION	EPIHRC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EHIPCR
((OPTION_C))	DTIPRC

This is optional	
((OPTION_D))	HRIPEC
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	We know that transposition cipher encrypts the plain text by shuffling the letters of the plain text. So out of the given options, only “DTIPRC” does not have the same set of letters as “CIPHER”.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many columns do we need to have in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	4
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	5
((OPTION_C))	6

This is optional	
((OPTION_D))	7
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So in this case it will be equal to 6.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the encrypted text corresponding to plain text “CLASSIFIED” using columnar transposition cipher with a keyword as “GAMES”?
((OPTION_A)) THIS IS MANDATORY OPTION	LFDSIASECI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SECIAISDFL
((OPTION_C))	CILFAISESD

This is optional																					
((OPTION_D))	IFSECIAISD																				
This is optional																					
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CH OICE)) Either A or B or C or D or E	D																				
((EXPLANATION )) This is also optional	<p>For encrypting using columnar cipher we have to arrange the letters of the plain text in a table which has the same number of columns as the letters of the keyword. Then the letters of the keyword are arranged in alphabetical order and we read along each column.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>1</td><td>4</td><td>2</td><td>5</td></tr> <tr><td>G</td><td>A</td><td>M</td><td>E</td><td>S</td></tr> <tr><td>C</td><td>L</td><td>A</td><td>S</td><td>S</td></tr> <tr><td>I</td><td>F</td><td>I</td><td>E</td><td>D</td></tr> </table> <p>So the ciphered text will be “IFSECIAISD”.</p>	3	1	4	2	5	G	A	M	E	S	C	L	A	S	S	I	F	I	E	D
3	1	4	2	5																	
G	A	M	E	S																	
C	L	A	S	S																	
I	F	I	E	D																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many rows will the letters of the plain text occupy in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B))	2

THIS IS ALSO MANDATORY OPTION																			
((OPTION_C)) This is optional	3																		
((OPTION_D)) This is optional	4																		
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																			
((CORRECT_CHOICE)) Either A or B or C or D or E	B																		
((EXPLANATION)) This is also optional	<p>Explanation: The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So when we will write the letters of the plain text row wise then there will be 2 rows of plain text in this case. The table is shown below :-</p> <table> <tr> <td>S</td> <td>E</td> <td>C</td> <td>R</td> <td>E</td> <td>T</td> </tr> <tr> <td>1</td> <td>S</td> <td>A</td> <td>N</td> <td>F</td> <td>O</td> <td>U</td> </tr> <tr> <td>2</td> <td>N</td> <td>D</td> <td>R</td> <td>Y</td> </tr> </table>	S	E	C	R	E	T	1	S	A	N	F	O	U	2	N	D	R	Y
S	E	C	R	E	T														
1	S	A	N	F	O	U													
2	N	D	R	Y															

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following statement is not true regarding columnar transposition cipher?
((OPTION_A)) THIS IS	probability of error is high while deciphering

MANDATORY OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	it cannot be combined with other ciphers
((OPTION_C)) This is optional	it is a traditional symmetric cipher
((OPTION_D)) This is optional	it is a weak cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Although columnar transposition cipher is a weak cipher in itself. But it can be combined with other substitution ciphers so as to improve its security. The probability of error remains high while decoding columnar cipher as it is a lengthy process

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is another data hiding technique which can be used in conjunction with cryptography for the extra-secure method of protecting data.
((OPTION_A))	Cryptography

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Steganography
((OPTION_C))  This is optional	Tomography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Steganography is the technique of hiding data in another raw data. Steganography is another data hiding technique which can be used in conjunction with cryptography for an extra-secure method of protecting data.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is hiding of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Steganography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Steganography helps in hiding any form of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ tool permits security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Chorography
((OPTION_D))  This is optional	Steganography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	A steganography tool is a software tool that permits a security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main motive for using steganography is that hackers or other users can hide a secret message behind a _____

((OPTION_A)) THIS IS MANDATORY OPTION	special file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ordinary file
((OPTION_C)) This is optional	program file
((OPTION_D)) This is optional	encrypted file
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	The main motive for using steganography is that hackers or other users can hide a secret message behind ordinary files. Some steganography tools are SSuite Picsel, rSteg etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	People will normally think it as a normal/regular file and your secret message will pass on without any _____

((OPTION_A)) THIS IS MANDATORY OPTION	Suspicion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	cracking
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Steganography techniques help hackers or other users to conceal covert message behind regular files. People will normally think it as a normal/regular file and your secret message will pass on without any suspicion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	By using _____ you can diminish the chance of data leakage

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C)) This is optional	Chorography
((OPTION_D)) This is optional	Steganography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Hackers or other cyber criminals target ordinary files to hide different data or information within another data file. By using steganography, you can diminish the chance of data leakage.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Which of the following is a mode of operation for the Block ciphers in cryptography?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Electronic Code Book (ECB)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher Block Chaining (CBC)
((OPTION_C)) This is optional	Counter (CTR) mode
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	For which of the following should EBC (Electronic Code Book) process not be used for encryption?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	For large block sizes
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	For fixed block sizes
((OPTION_C)) This is optional	For small block sizes
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	It is preferred that the block size in the ECB technique must be greater than 64 bits. If not, the text is padded to make it of the required length. This is due to some particular words and phrases that may be reused again often so that the same repetitive part of ciphertext can emerge as mixed.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	Which of the following is the main disadvantage of the ECB (Electronic Code Book)?

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	It requires large block size
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Padding is done to make the plain text divisible into blocks of fixed size
((OPTION_C)) This is optional	It is prone to cryptanalysis since there is a direct relationship between plain text and cipher text.
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	In <u>ECB</u> , there lies a direct relation between the plain text and the ciphertext. Therefore, it is easy for an outsider to break the encryption logic and steal the data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options is not correct according to the definition of the Cipher Block Chaining (CBC)?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC is a mode of operation for stream ciphers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Initialization vector (IV) is used in CBC in the initial phase.
((OPTION_C)) This is optional	It has better resistive nature towards cryptanalysis than ECB
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<a href="#">CBC</a> which stands for Cipher Block chaining is a mode of operation for block ciphers and not for stream ciphers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following modes of operations can be followed for both stream ciphers as well as block ciphers?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC (Cipher Block Chaining)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECB (Electronic Code Book)
((OPTION_C)) This is optional	CFB (Cipher text Feed Back)
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	<b>CFB</b> is primarily a mode to derive some characteristics of a stream cipher from a block cipher on the cryptography in cryptoanalysis.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p>All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?</p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift rows</li> <li>iii. Mix columns</li> <li>iv. Add round key</li> </ul>
((OPTION_A)) THIS IS MANDATORY OPTION	i
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	iii
((OPTION_C)) This is optional	All of the mentioned
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"The number of rounds in the AES algorithm depends upon the key size being used." Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	128 key size: 10 rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	192 key size: 12 rounds
((OPTION_C)) This is optional	256 key size: 14 rounds
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Avalanche effect
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Completeness
((OPTION_C)) This is optional	Both a. and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For the AES-128 algorithm there are _____ similar rounds and _____ round is different.
((OPTION_A)) THIS IS MANDATORY OPTION	2 pair of 5 similar rounds ; every alternate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	9 ; the last
((OPTION_C)) This is optional	8 ; the first and last
((OPTION_D)) This is optional	10 ; no
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the 4 operations are false for each round in the AES algorithm? i) Substitute Bytes ii) Shift Columns iii) Mix Rows iv) XOR Key
((OPTION_A)) THIS IS MANDATORY OPTION	i) only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii) iii) and iv)
((OPTION_C)) This is optional	ii) and iii)
((OPTION_D)) This is optional	only iv
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES rounds involve substitute bytes, shift rows, mix columns and addition of round key.

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There is an addition of round key before the start of the AES round algorithms.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In AES the final round contains only three transformations, and there is an initial single transformation (Add Round Key) before the first round which can be considered Round 0. Each transformation takes $4 \times 4$ matrixes as input and produces a $4 \times 4$ matrix as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1																
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the Shifted Row transformation for the matrix bellow?  <table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_A))  THIS IS MANDATORY OPTION	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
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((OPTION_B))  THIS IS ALSO MANDATORY OPTION	<table border="1"> <tr> <td>72</td><td>2B</td><td>D7</td><td>FE</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>63</td><td>AD</td><td>01</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	72	2B	D7	FE	A4	6B	6B	77	63	AD	01	F0	30	D7	AF	FE
72	2B	D7	FE														
A4	6B	6B	77														
63	AD	01	F0														
30	D7	AF	FE														
((OPTION_C))  This is optional	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>77</td><td>A4</td><td>6B</td><td>6B</td></tr> <tr> <td>F0</td><td>63</td><td>AD</td><td>01</td></tr> <tr> <td>FE</td><td>30</td><td>D7</td><td>AF</td></tr> </table>	FE	72	2B	D7	77	A4	6B	6B	F0	63	AD	01	FE	30	D7	AF
FE	72	2B	D7														
77	A4	6B	6B														
F0	63	AD	01														
FE	30	D7	AF														
((OPTION_D))  This is optional	<table border="1"> <tr> <td>D7</td><td>FE</td><td>72</td><td>2B</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>01</td><td>AD</td><td>63</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	D7	FE	72	2B	A4	6B	6B	77	01	AD	63	F0	30	D7	AF	FE
D7	FE	72	2B														
A4	6B	6B	77														
01	AD	63	F0														
30	D7	AF	FE														

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The Shift Rows transformation consists of: -Not shifting the first row of the state array at all. -Circularly shifting the second row by one byte to the left. -Circularly shifting the third row by two bytes to the left, and -Circularly shifting the last row by three bytes to the left.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not weak key in DES
((OPTION_A)) THIS IS MANDATORY OPTION	0x0101010101010101
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0xEFABFEFEFEFEFEFE
((OPTION_C)) This is optional	0x1F1F1F1F0E0E0E0E
((OPTION_D))	0xFFFFFFFFFFFFFF

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple-DES has _____ keys.
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	2
((OPTION_C)) This is optional	5
((OPTION_D))	4

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a encryption technique which uses two instance of DES on same plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	Double DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripple DES
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack which can be used to break through double DES.
((OPTION_A)) THIS IS MANDATORY OPTION	Brute force
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	meet-in-the middle
((OPTION_C)) This is optional	Timing
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple DES involve __
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption, Decryption, Decryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption ,Encryption, Encryption
((OPTION_C)) This is optional	Decryption ,Encryption, Decryption
((OPTION_D))	Encryption, Decryption, Encryption

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ involves feeding the successive output blocks from the underlying block cipher back to it
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	OFB
((OPTION_D))	CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is counter-based version of CFB mode without the feedback
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	counter
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below mode is independent of previous output
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	CFB
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Errors get propagated in all modes except ___and ___
((OPTION_A)) THIS IS MANDATORY OPTION	ECB,COUNTER
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC,COUNTER
((OPTION_C)) This is optional	CFB,COUNTER
((OPTION_D))	OFB,CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Patterns are not preserved in ___ mode
((OPTION_A)) THIS IS MANDATORY OPTION	CBC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CFB
((OPTION_C)) This is optional	Both CBC and CFB
((OPTION_D))	ECB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A small change in plaintext results in the very great change in the cipher text indicates which characteristic
((OPTION_A)) THIS IS MANDATORY OPTION	completeness
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Strong key
((OPTION_C)) This is optional	Avalanche effect
((OPTION_D))	All of the above

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ ciphers, the plaintext is processed one bit at a time i.e. one bit of plaintext is taken, and a series of operations is performed on it to generate one bit of cipher text.
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	More number of _____ provide more secure system in feistel cipher.
((OPTION_A)) THIS IS MANDATORY OPTION	rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	keys
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	Function
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The number of rounds used in a Feistel Cipher depends on desired security from the system. More number of rounds provide more secure system. But at the same time, more rounds mean the inefficient slow encryption and decryption processes..

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem _____ keys are used for encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different
((OPTION_C)) This is optional	Encryption Keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	In conventional cryptosystem, same keys are used for encryption and decryption where as in public key cryptosystem different keys are used.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem which is kept as public?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption keys
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption keys
((OPTION_C)) This is optional	Encryption & Decryption keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	In public key cryptosystem, the encryption keys are kept as public where as decryption keys are kept as secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptosystem uses same key for both encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which should be kept as a secret in public key cryptosystem?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption key
((OPTION_C)) This is optional	Encryption & Decryption key
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	In public key cryptosystem, Encryption is done using public key . decryption key needs to be kept as a secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Euler's totient function is determined by
((OPTION_A)) THIS IS MANDATORY OPTION	$pq$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(p-1)(q-1)$
((OPTION_C)) This is optional	$(p+1)(q+1)$
((OPTION_D)) This is optional	$p/q$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The Euler's totient function is determined by $(p-1)(q-1)$ , where p and q are kept hidden.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'?
((OPTION_A))  THIS IS MANDATORY OPTION	p and q should be divisible by $\Phi(n)$
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	p and q should be co-prime
((OPTION_C))  This is optional	p and q should be prime
((OPTION_D))  This is optional	p/q should give no remainder
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	'p' and 'q' should have large random values which are both prime numbers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.
((OPTION_A)) THIS IS MANDATORY OPTION	(p)/(q)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	(p)(q)
((OPTION_C)) This is optional	(p-1)(q-1)
((OPTION_D)) This is optional	(p+1)(q+1)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$\Phi(n) = (p-1)(q-1).$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	$\gcd(e, \Phi(n))=1$ ; and $1 < e < \Phi(n)$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $e=17$ . Apply RSA algorithm where message=5 and find the cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	C=80
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	C=92
((OPTION_C)) This is optional	C=56
((OPTION_D)) This is optional	C=23
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 209.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	54
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	43
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	24
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$n = pq = 11 \times 19 = 209$ . $C=M^e \text{ mod } n ; C=5^{17} \text{ mod } 209 ; C = 80 \text{ mod } 209$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	$n = 35; e = 5; C = 10$ . What is the plaintext (use RSA) ?
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	7
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Use RSA system to decrypt and get PT = 5.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where PT message=88 and thus find the CT.
((OPTION_A)) THIS IS MANDATORY OPTION	23
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64
((OPTION_C)) This is optional	11
((OPTION_D)) This is optional	54
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=88^7 \text{ mod } 187 ; C = 11 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where Cipher message=11 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	88
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	122
((OPTION_C)) This is optional	143
((OPTION_D)) This is optional	111
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=11^{23} \text{ mod } 187 ; C = 88 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an RSA system the public key of a given user is $e = 31$ , $n = 3599$ . What is the private key of this user?
((OPTION_A))  THIS IS MANDATORY OPTION	3031
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	2412
((OPTION_C))  This is optional	2432
((OPTION_D))  This is optional	1023
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	By trial and error, we determine that $p = 59$ and $q = 61$ . Hence $f(n) = 58 \times 60 = 3480$ . Then, using the extended Euclidean algorithm, we find that the multiplicative inverse of 31 modulo $f(n)$ is 3031

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compute private key (d, p, q) given public key (e=23, n=233 ´ 241=56,153).
((OPTION_A)) THIS IS MANDATORY OPTION	35212
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	12543
((OPTION_C)) This is optional	19367
((OPTION_D)) This is optional	32432
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Since n=233 ´ 241=56,153, p=233 and q=241 $f(n) = (p - 1)(q - 1) = 55,680$ Using Extended Euclidean algorithm, we obtain $d = 23^{-1} \text{ mod } 55680 = 19,367.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a RSA cryptosystem a particular A uses two prime numbers $p = 13$ and $q = 17$ to generate her public and private keys. If the public key of A is 35. Then the private key of A is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	13
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	17
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In an RSA cryptosystem, for public key: $\text{GCD}(\phi(n), e) = 1$ And, for private key:

	$(e * d) \bmod \phi(n) = 1$ Where, $\phi(n) = (p - 1)*(q - 1) = (13 - 1)(17 - 1) = 12 * 16 = 192$ Such that $1 < e, d < \phi(n)$ Therefore, the private key is: $(35 * d) \bmod \phi(n) = 1$ $d = 11$
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA public key cryptosystem, which one of the following numbers will always be largest?
((OPTION_A)) THIS IS MANDATORY OPTION	E
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	N
((OPTION_C)) This is optional	P
((OPTION_D)) This is optional	Q
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The number n is generated as the product of the two large prime numbers p and q. Therefore, n must always be greater than both p and q. Furthermore, it is an algorithm constraint that e must be chosen such that e is smaller than n. Therefore, in RSA cryptography n is always the largest of the four variables shown in the options to this question.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If Richard wants to send an encrypted message to Sue using a public key cryptosystem, which key does he use to encrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Richard must encrypt the message using Sue's public key so that Sue can decrypt it using her private key. If he encrypted the message with his own public key, the recipient would need to know Richard's private key to decrypt the message. If he encrypted it with his own private key, any user could decrypt the message using Richard's freely available public key. Richard could not encrypt the message using Sue's private key because he does not have access to it. If he did, any user could decrypt it using Sue's freely available public key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Acme Widgets currently uses a 1,024-bit RSA encryption standard companywide. The company plans to convert from RSA to an elliptic curve cryptosystem. If it wishes to maintain the same cryptographic strength, what ECC key length should it use?
((OPTION_A)) THIS IS MANDATORY OPTION	160 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	512 bits
((OPTION_C)) This is optional	1,024 bits
((OPTION_D)) This is optional	2,048 bits

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The elliptic curve cryptosystem requires significantly shorter keys to achieve encryption that would be the same strength as encryption achieved with the RSA encryption algorithm. A 1,024-bit RSA key is cryptographically equivalent to a 160-bit elliptic curve cryptosystem key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Richard received an encrypted message sent to him from Sue. Which key should he use to decrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sue would have encrypted the message using Richard's public key. Therefore, Richard needs to use the complementary key in the key pair, his private key, to decrypt the message.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One commonly used public-key cryptography method is the _____ algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the objective of Diffie-Hellman key exchange?
((OPTION_A)) THIS IS MANDATORY OPTION	To protect encrypted data from man-in-the-middle attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	To perform mutual authentication on both sides
((OPTION_C)) This is optional	To prove to another party that one holds a secret key without revealing it
((OPTION_D)) This is optional	To establish a shared secret key on both sides

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The security of RSA encryption relies on which assumption?
((OPTION_A)) THIS IS MANDATORY OPTION	It is computationally infeasible to compute a GCD of two large numbers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is computationally infeasible to factor a large number.
((OPTION_C)) This is optional	It is computationally infeasible to test whether a large number is prime.
((OPTION_D)) This is optional	It is computationally infeasible to compute a square modulo n.

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is asymmetric cryptography?
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	Both ECC and RSA
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below requires less hardware capacity because of less key size
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Diffie Hellman is _____
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption algorithm
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	D-H is key exchange algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Timing attack on RSA can be avoided by __
((OPTION_A)) THIS IS MANDATORY OPTION	Padding extra bits in message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Adding delays
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below algorithm is used in cryptocurrency?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AES
((OPTION_C)) This is optional	ECC
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When a hash function is used to provide message authentication, the hash function value is called to as:
((OPTION_A)) THIS IS MANDATORY OPTION	Message Field
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Message Digest
((OPTION_C)) This is optional	Message Score
((OPTION_D)) This is optional	Message Leap

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	We know that the hash function providing message authentication is referred to as message digest in cryptography.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following are used to create a message digest  a. RSA b. SHA-1 c. DES d. MD5
((OPTION_A)) THIS IS MANDATORY OPTION	A&B
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	B&C
((OPTION_C)) This is optional	A&C

((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	They are Message digest algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the output of a cryptographic hash function?
((OPTION_A)) THIS IS MANDATORY OPTION	A variable set of bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A fixed set of bits, derived from one-way mathematical operations
((OPTION_C)) This is optional	An output which may be easily discovered by an adversary

((OPTION_D)) This is optional	Outputs of such functions are of no importance
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest algorithms are primarily used to provide _____
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	inegrity

((OPTION_D)) This is optional	authorization
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a message digest algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IDEA
((OPTION_C)) This is optional	MD5

((OPTION_D)) This is optional	RSA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the data must arrive at the receiver exactly as sent.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the receiver is ensured that the message is coming from the intended sender, not an imposter.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ function creates a message digest out of a message
((OPTION_A)) THIS IS MANDATORY OPTION	encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	hash

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a trusted third party that assigns a symmetric key to two parties.
((OPTION_A)) THIS IS MANDATORY OPTION	Public directory
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Certificate authority
((OPTION_C)) This is optional	Both

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature provides _____.
((OPTION_A)) THIS IS MANDATORY OPTION	authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nonrepudiation
((OPTION_C)) This is optional	both (a) and (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature needs a(n) _____ system
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a federal or state organization that binds a public key to an entity and issues a certificate.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	means that a sender must not be able to deny sending a message that he sent.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication

((OPTION_D)) This is optional	Nonrepudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is a popular session key creator protocol that requires an authentication server and a ticket-granting server.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The MD5 is a message digest algorithm developed by
((OPTION_A)) THIS IS MANDATORY OPTION	Ron Rivest.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	WhiteField Diffie.
((OPTION_C)) This is optional	Martin Hellman.

((OPTION_D)) This is optional	Diffie-Hellman.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 is quite fast and produces _____ message digests
((OPTION_A)) THIS IS MANDATORY OPTION	512 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1024 bits
((OPTION_C)) This is optional	128 bits

((OPTION_D)) This is optional	64 bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The first step of MD5 is
((OPTION_A)) THIS IS MANDATORY OPTION	add padding bits to original messsge
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	adding append length bits
((OPTION_C)) This is optional	divide the input into 512 bit blocks

((OPTION_D)) This is optional	compression
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the process block divides the 512 bits into _____ sub blocks.
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	24
((OPTION_C)) This is optional	32

((OPTION_D)) This is optional	84
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which financial institutions have a relationship with merchants for processing payment card authorizations and payments?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Acquirer
((OPTION_C)) This is optional	Merchant

((OPTION_D)) This is optional	Dealer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following contains the order information such as which items are being purchased?
((OPTION_A)) THIS IS MANDATORY OPTION	PI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	OI
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Payment information can be encrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	customer's private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	merchant public key
((OPTION_C)) This is optional	one-time session key.

((OPTION_D)) This is optional	customer's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature envelope is decrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	merchant private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	payment's private key
((OPTION_C)) This is optional	payment public key

((OPTION_D)) This is optional	merchant's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ will ensure the merchant and their payment information
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Dual signature

((OPTION_D)) This is optional	Certificate authority
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SET provides an authentication with the help of _____
((OPTION_A)) THIS IS MANDATORY OPTION	dual signature
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	digital certificate
((OPTION_C)) This is optional	payment's public key

((OPTION_D)) This is optional	payment's private key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are very crucial for success of RSA algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	Integers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Prime numbers
((OPTION_C)) This is optional	Negative number

((OPTION_D)) This is optional	Fraction
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ acts as financial institutions who provides a payment card to a card holder
((OPTION_A)) THIS IS MANDATORY OPTION	payment gateway
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	card holder
((OPTION_C)) This is optional	acquirer

((OPTION_D)) This is optional	issuer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	ISSUER means Bank

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who will be responsible for processing the payment from the customer's account to the merchant account?
((OPTION_A)) THIS IS MANDATORY OPTION	Acquirer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Issuer

((OPTION_D)) This is optional	Payment gateway
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cardholder combines the PIMD and OIMD and hashes them together to form
((OPTION_A)) THIS IS MANDATORY OPTION	OPMD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POMD
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which process will ensure that the issues of the credit card is an approved transactions?
((OPTION_A)) THIS IS MANDATORY OPTION	Payment capture
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Payment authorization
((OPTION_C)) This is optional	Purchase request

((OPTION_D)) This is optional	Purchase reply
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is used for hiding the payment information from the merchant.
((OPTION_A)) THIS IS MANDATORY OPTION	SET
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	SHTTP

((OPTION_D)) This is optional	TSP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A __word buffer is used to compute the message digest in MD5
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5

((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	4 WORD A,B,C,D

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the message is <b>padded</b> so that its length is divisible by ____
((OPTION_A)) THIS IS MANDATORY OPTION	32
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	128
((OPTION_C)) This is optional	512

((OPTION_D)) This is optional	1024
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 should meet requirements:
((OPTION_A)) THIS IS MANDATORY OPTION	It is impossible to generate two inputs that cannot produce the same hash function
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is impossible to generate a message having the same hash value
((OPTION_C)) This is optional	Both of the above

((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 takes an input of ___ size and produces an output if a 128-bit hash value
((OPTION_A)) THIS IS MANDATORY OPTION	Any
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Multiple of 512
((OPTION_C)) This is optional	Multiple of 128

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following best describes sniffing?
((OPTION_A)) THIS IS MANDATORY OPTION	Gathering packets to locate IP addresses, in order to initiate a session hijacking attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Analyzing packets in order to locate the sequence number to start a session hijack
((OPTION_C)) This is optional	Monitoring TCP sessions in order to initiate a session-hijacking attack

((OPTION_D)) This is optional	Locating a host susceptible to a session-hijack attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sniffing is usually used to locate the sequence number, which is necessary for a session hijack.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The secret key between members needs to be created as a _____ key when two members contact Kerberos system
((OPTION_A)) THIS IS MANDATORY OPTION	Public
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session
((OPTION_C))	complimentary

This is optional	
((OPTION_D))	None of these
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main components of Kerberos are:
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	database

This is optional	
((OPTION_D))	All of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ performs the initial authentication and ticket for Ticket Granting Service
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	Database

This is optional	
((OPTION_D))	Kerberos
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Authentication Server verifies access right of users in __
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TG server
((OPTION_C))	Database

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ issues the ticket for the Server
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	DB

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is primarily used for _____
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))	confidentiality

This is optional	
((OPTION_D))	authorization
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The KDC encrypts the TGT with a password that only the _____ knows.
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	Server

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Because no one else needs to be able to see the contents.  It's for the server to keep track of the client

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The essence of Kerberos' system is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	One way authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity

((OPTION_C)) This is optional	Mutual authentication
((OPTION_D)) This is optional	Public authentication
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not an element/field of the X.509 certificates?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer Name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Serial Modifier

((OPTION_C)) This is optional	Issuer unique Identifier
((OPTION_D)) This is optional	Signature
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 certificate recommends which cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	DES

((OPTION_C)) This is optional	AES
((OPTION_D)) This is optional	Rabin
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The standard used in digital certificates that defines its structure, fields, and Values is
((OPTION_A)) THIS IS MANDATORY OPTION	Kerberos
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	End to end encryption

((OPTION_C)) This is optional	X.509
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 Certificates includes
((OPTION_A)) THIS IS MANDATORY OPTION	Version
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	signature algorithm identifier

((OPTION_C)) This is optional	period of validity
((OPTION_D)) This is optional	extension fields
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CH OICE)) Either A or B or C or D or E	E
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ defines a framework for the provision of authentication services by the X.500 directory
((OPTION_A)) THIS IS MANDATORY OPTION	X.509
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.508

((OPTION_C)) This is optional	X.505
((OPTION_D)) This is optional	X.609
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature is a mathematical technique used to validate the _____ and _____ of a message, software or digital document
((OPTION_A)) THIS IS MANDATORY OPTION	Authenticity, integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity, confidentiality

((OPTION_C)) This is optional	Integrity,non-repudiation
((OPTION_D)) This is optional	Authenticity,confidentiality
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature involves ____ and ____
((OPTION_A)) THIS IS MANDATORY OPTION	Signature verification ,validation
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Signature creation,verification

((OPTION_C)) This is optional	Signature creation,deletion
((OPTION_D)) This is optional	Signature validation,modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest is computed by applying hash function on the message and then message digest is encrypted using _____ key of sender to form the digital signature.
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Session
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature , Receiver decrypts the digital signature using the _____ key of sender
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Secret
((OPTION_D)) This is optional	Session
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature, The message digest computed by ___ and the message digest (got by decryption on digital signature) need to be ___ for ensuring integrity
((OPTION_A)) THIS IS MANDATORY OPTION	Receiver,same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Receiver,different

((OPTION_C)) This is optional	Sender,same
((OPTION_D)) This is optional	Sender,different
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is like a fingerprint or an attachment to a digital document that ensures its authenticity and integrity.
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Digital signature

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature follows _____
((OPTION_A)) THIS IS MANDATORY OPTION	Digital Signature Standard (DSS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.509 standard format

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In diffie-hellman algorithm, if Alice and Bob wish to communicate with each other, they first agree between them a large prime number n, and ____ g
((OPTION_A)) THIS IS MANDATORY OPTION	Generator
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Small prime number

((OPTION_C)) This is optional	Natural number
((OPTION_D)) This is optional	Factorial
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm if $X_a$ is private key of user then public key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$g^{X_a} \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$n^{X_a} \text{ mod } n$

((OPTION_C)) This is optional	$g^n \bmod p$
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, ____ keys of each other should be known
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session

((OPTION_C)) This is optional	Public
((OPTION_D)) This is optional	No
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm,shared secret key is calculated by _____
((OPTION_A)) THIS IS MANDATORY OPTION	$(g^a \text{ mod } n)^b \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(g^b \text{ mod } n)^a \text{ mod } n$

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, the resulting shared secret will be the ___ every time
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different

((OPTION_C)) This is optional	Maybe same
((OPTION_D)) This is optional	Can't say
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ the first widely used method of safely developing and exchanging keys over an insecure channel
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSS

((OPTION_C)) This is optional	Diffie Hellman
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suppose that two parties A and B wish to set up a common secret key (D-H key) between themselves using the Diffie Hellman key exchange technique. They agree on 7 as the modulus and 3 as the primitive root. Party A chooses 2 and party B chooses 5 as their respective secrets. Their D-H key is
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4

((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prime value $q = 17$ and primitive root $= 5$ . If Alice's secret key is 4 and Bob's secret key is 6, what is the shared secret key they exchanged?
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	17

((OPTION_C)) This is optional	18
((OPTION_D)) This is optional	19
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each round of MD5 consist of ____ operations
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15

((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	18
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each buffer of MD5 algorithm is ____ bit long
((OPTION_A))  THIS IS MANDATORY OPTION	32
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	64

((OPTION_C)) This is optional	128
((OPTION_D)) This is optional	512
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	RSA is _____ cryptography
((OPTION_A)) THIS IS MANDATORY OPTION	Asymmetric
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Value generated by hash function is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Message digest
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hash

((OPTION_C)) This is optional	MAC
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not service of digital signature
((OPTION_A))  THIS IS MANDATORY OPTION	Authentication to message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data integrity

((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ digitally signs this entire information and includes digital signature in the certificate
((OPTION_A)) THIS IS MANDATORY OPTION	CA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	KDC

((OPTION_C)) This is optional	PKI
((OPTION_D)) This is optional	DB
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA ,e is used as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Euler's totient
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, d is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key
((OPTION_C)) This is optional	Totient function
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Collection of protocol designed by IETF
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Operation in Tunnel mode
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects information in
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec in which mode does not protect IP header
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which mode is used when we need host to host protection
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects the whole IP packets
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec defines two protocol
((OPTION_A)) THIS IS MANDATORY OPTION	AH, SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP, ASP
((OPTION_C)) This is optional	AH, ESP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Authentication at the IP header
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES AUTHENTICATION OR ENCRYPTION OR BOTH FOR PACKET AT IP LEVEL
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ESP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSEC USES A SET OF SA CALLED
((OPTION_A)) THIS IS MANDATORY OPTION	SAD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SAB
((OPTION_C)) This is optional	SADB
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol to provide security for inbound and outbound
((OPTION_A)) THIS IS MANDATORY OPTION	SA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CA
((OPTION_C)) This is optional	KDC
((OPTION_D)) This is optional	IKE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE creates SA for
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP
((OPTION_C)) This is optional	IPSec
((OPTION_D)) This is optional	VP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE based on other how many protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Two
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Three
((OPTION_C)) This is optional	Four
((OPTION_D)) This is optional	five
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE uses
((OPTION_A)) THIS IS MANDATORY OPTION	OAKLEY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SKEME
((OPTION_C)) This is optional	ISKAMP
((OPTION_D)) This is optional	ALL ABOVE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network is used in an organization
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Semi private
((OPTION_D)) This is optional	Semi publik
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Private network that uses an internet model
((OPTION_A)) THIS IS MANDATORY OPTION	intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a network that allows authorized access from outside
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Internet authorities have reserved address for
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is provides privacy for LAN
((OPTION_A)) THIS IS MANDATORY OPTION	VPP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	VNP
((OPTION_C)) This is optional	VNN
((OPTION_D)) This is optional	VPN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES END TO END SECURITY FOR APPLICATION
((OPTION_A)) THIS IS MANDATORY OPTION	DATA LINK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NETWORK
((OPTION_C)) This is optional	TRANSPORT
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is actually an IETF version on
((OPTION_A)) THIS IS MANDATORY OPTION	TLS, TSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL. TLS
((OPTION_C)) This is optional	TLS, SSL
((OPTION_D)) This is optional	SSL,SLT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security at the transport layer
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To provide security and compression
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Can receive application data from any application layer protocol
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSL provides
((OPTION_A)) THIS IS MANDATORY OPTION	Integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Compression
((OPTION_D)) This is optional	All above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSI session
((OPTION_A)) THIS IS MANDATORY OPTION	List of protocol
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher suit
((OPTION_C)) This is optional	List of keys
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cryptographic algorithem and secrets are sent with the message IN
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	TLS
((OPTION_D)) This is optional	PGP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security protocol for email security is
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Was invented by Phil Zimmerman
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security, integration, authentication in email
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Method to transfer secure message
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cryptoanalysis
((OPTION_C)) This is optional	both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the original message before transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the message after transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms plaintext to ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms cipher text to plain text
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A combination of encryption and decryption algorithm is called
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher operates on
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The same key used by both the sender and receiver
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The key is called as secret key
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A pair of keys used in
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the sender uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the receiver uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A cipher replaces one character with another
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic and polyalphabetic cipher are
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The simplest monoalphabetic cipher is
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Ceasar cipher that has key of 3
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cipher reorders the plain text to create the ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless substitution To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless transposition To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher made of a combination of different simple cipher
((OPTION_A)) THIS IS MANDATORY OPTION	Round
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Circle
((OPTION_C)) This is optional	Square
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is an method
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES has an Round
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES functions has componenets
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES uses a key generaterto generater to generate sixteen ---round key
((OPTION_A)) THIS IS MANDATORY OPTION	32 bit
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	48 bit
((OPTION_C)) This is optional	54 bit
((OPTION_D)) This is optional	42 bit
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES was designed to increase the size of DES key
((OPTION_A)) THIS IS MANDATORY OPTION	Double
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripal
((OPTION_C)) This is optional	Quadrupal
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Algorithm uses a 128 bit block of data
((OPTION_A)) THIS IS MANDATORY OPTION	AEE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AED
((OPTION_C)) This is optional	AER
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES has how many different combinations
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are ciphers
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Field
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptographic algorithm is
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	AC
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	it provides a one time session key for two parties
((OPTION_A)) THIS IS MANDATORY OPTION	Diffie hellman
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is an abbreviation of
((OPTION_A)) THIS IS MANDATORY OPTION	Terminal network
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Telephone network
((OPTION_C)) This is optional	Telecommunication network
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is a client server application program for
((OPTION_A)) THIS IS MANDATORY OPTION	Specific purpose
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	General purpose
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Users logs in to local time sharing system is called
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To access remote machine need a login
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	NVT uses two set of character
((OPTION_A)) THIS IS MANDATORY OPTION	Sending, receiving
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Request, reply
((OPTION_C)) This is optional	Data, control
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The server uses -----port
((OPTION_A)) THIS IS MANDATORY OPTION	Wellknown
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Emperor
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To distinguish data from characters
((OPTION_A)) THIS IS MANDATORY OPTION	ICA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IAC
((OPTION_C)) This is optional	AIC
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	the echoing is done by the client in the mode
((OPTION_A)) THIS IS MANDATORY OPTION	Default
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Character
((OPTION_C)) This is optional	Line
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP uses a service of
((OPTION_A)) THIS IS MANDATORY OPTION	UDP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IP
((OPTION_C)) This is optional	TCP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP control and data connection are
((OPTION_A))  THIS IS MANDATORY OPTION	21, 22
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	20,21
((OPTION_C))  This is optional	21,20
((OPTION_D))  This is optional	none
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP is the service type used by IP protocol because
((OPTION_A)) THIS IS MANDATORY OPTION	Maximise throughput
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Minimize delay
((OPTION_C)) This is optional	Minimize error
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For control connection FTP use a character set of
((OPTION_A)) THIS IS MANDATORY OPTION	Regular ASCII
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EBCDIC
((OPTION_C)) This is optional	NVT ASCII
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP files are types of an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structures
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP there are three types of -----,stream, blocked and compression
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structurs
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP and image defines an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File type
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structure
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the server to client
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Retrieve a list
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the client to server
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Store a file
((OPTION_C)) This is optional	Retrieve a file
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a part of a local hard drive, a special file with permission restriction
((OPTION_A)) THIS IS MANDATORY OPTION	A message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A response
((OPTION_C)) This is optional	An agent
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and the receiver on the same system we need
((OPTION_A)) THIS IS MANDATORY OPTION	One UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	One UA and one MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are on the different system, we need
((OPTION_A)) THIS IS MANDATORY OPTION	One MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	Two UA and one pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender is connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pairs of MTA
((OPTION_C)) This is optional	Two UA and a pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two UA, two pair of MTA, a pair of MAA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pair of MTA
((OPTION_C)) This is optional	Two UA, two pair of MTA, two pair of MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It provides a service to the user to make the process of sending and receiving message
((OPTION_A)) THIS IS MANDATORY OPTION	MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAA
((OPTION_C)) This is optional	UA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following services is not provided by UA
((OPTION_A))  THIS IS MANDATORY OPTION	Composing message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Reading message
((OPTION_C))  This is optional	Reply message
((OPTION_D))  This is optional	ALL are
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There are two types of user agents
((OPTION_A)) THIS IS MANDATORY OPTION	Command driven, data driven
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Command driven, GUI based
((OPTION_C)) This is optional	Command based and data based
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It contains the sender address, receiver address and other information
((OPTION_A)) THIS IS MANDATORY OPTION	Message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Envelop
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The message contains
((OPTION_A)) THIS IS MANDATORY OPTION	Header, envelop
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Header, body
((OPTION_C)) This is optional	Envelop, body
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the internet, the email address contains two parts
((OPTION_A)) THIS IS MANDATORY OPTION	Local part, domain name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Global part, domain name
((OPTION_C)) This is optional	Label, domain name
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is a supplementary protocol that allow Non ASCII data to be sent through email
((OPTION_A)) THIS IS MANDATORY OPTION	JPEG
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MPEG
((OPTION_C)) This is optional	MIME
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The actual email transfer is done through
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol that defines a MTA client and server in the internet is called
((OPTION_A)) THIS IS MANDATORY OPTION	SMTP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SNMP
((OPTION_C)) This is optional	TELNET
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of transferring a mail message occurs in-----phase
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SMTP is --- protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in a email transfer need a ---protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in an email transfer uses an ----protocol
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Currently two message asses protocol are available
((OPTION_A)) THIS IS MANDATORY OPTION	POP3, IMAP2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POP4,IMAP1
((OPTION_C)) This is optional	POP3, IMAP4
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

# ICS UNIT 1

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a threat to information security?
((OPTION_A)) THIS IS MANDATORY OPTION	Disaster
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Eavesdropping
((OPTION_C)) This is optional	Information leakage
((OPTION_D)) This is optional	Unchanged default password
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Disaster, eavesdropping and information leakage come under information security threats whereas not changing the default password of any system, hardware or any software comes under the category of vulnerabilities that the user may pose to its system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compromising confidential information comes under
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	Threats are anything that may cause damage or harm to a computer system, individual or any information. Compromising of confidential information means extracting out sensitive data from a system by illegal manner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Lack of access control policy is a
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Access control policies are incorporated to a security system for restricting of unauthorised access to any logical or physical system. Every security compliance program must need this as a fundamental component. Those systems which lack this feature is vulnerable.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Possible threat to any information cannot be
((OPTION_A)) THIS IS MANDATORY OPTION	reduced
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transferred
((OPTION_C)) This is optional	protected
((OPTION_D)) This is optional	ignored
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	When there lies a threat to any system, safeguards can be implemented, outsourced, distributed or transferred to some other system, protected using security tools and techniques but cannot be ignored.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	According to the CIA triad the three components that a security need is the Confidentiality, Integrity, Availability (as in short read as

		
CIA).		

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When you use the word _____ it means you are protecting your data from getting disclosed.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	

((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Confidentiality is what every individual prefers in terms of physical privacy as well as digital privacy. This term means our information needs to be protected from getting disclosed to unauthorised parties, for which we use different security mechanisms like password protection, biometric security, OTPs (One Time Passwords) etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ means the protection of data from modification by unknown users.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Non-repudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	A information only seems valuable if it is correct and do not get modified during its journey in the course of arrival. The element integrity makes sure that the data sent or generated from other end is correct and is not modified by any unauthorised party in between.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When integrity is lacking in a security system, _____ occurs.
((OPTION_A)) THIS IS MANDATORY OPTION	Database hacking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data deletion
((OPTION_C)) This is optional	Data tampering
((OPTION_D)) This is optional	Data leakage
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The term data tampering is used when integrity is compromised in any security model and checking its integrity later becomes costlier. Example: let suppose you sent \$50 to an authorised person and in between a Man in the Middle (MiTM) attack takes place and the value has tampered to \$500. This is how integrity is compromised.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	of information means, only authorised users are capable of accessing the information.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional.	

If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Information seems useful only when right people (authorised users) access it after going through proper authenticity check. The key element availability ensures that only authorised users are able to access the information.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
((OPTION_A)) THIS IS MANDATORY OPTION	They help understanding hacking better
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	They are key elements to a security breach
((OPTION_C)) This is optional	They help understands security and its components better
((OPTION_D)) This is optional	They help to understand the cyber-crime better
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The four elements of security viz. confidentiality, integrity, authenticity & availability helps in better understanding the pillars of security and its different components.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This helps in identifying the origin of information and authentic user. This referred to here as
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The key element, authenticity helps in assuring the fact that the information is from the original source.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data _____ is used to ensure confidentiality.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Locking
((OPTION_C)) This is optional	Deleting
((OPTION_D)) This is optional	Backup
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Data encryption is the method of converting plain text to cipher-text and only authorised users can decrypt the message back to plain text. This preserves the confidentiality of data

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is not a proper method of maintaining AUTHENTICATION?
((OPTION_A)) THIS IS MANDATORY OPTION	Biometric verification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ID and password based verification
((OPTION_C)) This is optional	2-factor authentication
((OPTION_D)) This is optional	switching off the phone
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Switching off the phone in the fear of preserving the confidentiality of data is not a proper solution for data confidentiality. Fingerprint detection, face recognition, password-based authentication, two-step verifications are some of these.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data integrity gets compromised when _____ and _____ are taken control off.
((OPTION_A)) THIS IS MANDATORY OPTION	Access control, file deletion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Network, file permission
((OPTION_C)) This is optional	Access control, file permission
((OPTION_D)) This is optional	Network, system

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The two key ingredients that need to be kept safe are: access control & file permission in order to preserve data integrity.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One common way to maintain data availability is
((OPTION_A)) THIS IS MANDATORY OPTION	Data clustering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data backup
((OPTION_C)) This is optional	Data recovery
((OPTION_D)) This is optional	Data Altering

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	For preventing data from data-loss, or damage data backup can be done and stored in a different geographical location so that it can sustain its data from natural disasters & unpredictable events.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hackers who help in finding bugs and vulnerabilities in a system & don't intend to crack a system are termed as
((OPTION_A)) THIS IS MANDATORY OPTION	Black Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Grey Hat Hackers
((OPTION_D)) This is optional	Red Hat Hackers

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	White Hat Hackers are cyber security analysts and consultants who have the intent to help firms and Governments in the identification of loopholes as well as help to perform penetration tests for securing a system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the legal form of hacking based on which jobs are provided in IT industries and firms?
((OPTION_A)) THIS IS MANDATORY OPTION	Cracking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Non ethical Hacking
((OPTION_C)) This is optional	Ethical hacking
((OPTION_D))	Hactivism

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Ethical Hacking is an ethical form of hacking done by white-hat hackers for performing penetration tests and identifying potential threats in any organizations and firms.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	They are nefarious hackers, and their main motive is to gain financial profit by doing cyber crimes. Who are "they" referred to here?
((OPTION_A)) THIS IS MANDATORY OPTION	Gray Hat Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Hactivists
((OPTION_D))	Black Hat Hackers

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Black Hat hackers also termed as 'crackers' and are a major type of cyber criminals who take unauthorized access in user's account or system and steal sensitive data or inject malware into the system for their profit or to harm the organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are the combination of both white as well as black hat hackers.
((OPTION_A)) THIS IS MANDATORY OPTION	Grey Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Green Hat hackers
((OPTION_C)) This is optional	Blue Hat Hackers

((OPTION_D)) This is optional	Red Hat Hacker
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Grey Hat Hackers have a blending character of both ethical as well as un-ethical hacker. They hack other's systems for fun but do not harm the system, exploits bugs and vulnerabilities in network without the knowledge of the admin or the owner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The amateur or newbie in the field of hacking who don't have many skills about coding and in-depth working of security and hacking tools are called _____
((OPTION_A)) THIS IS MANDATORY OPTION	Sponsored Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hactivists
((OPTION_C))	Script Kiddies

This is optional	
((OPTION_D))	Whistle Blowers
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Script Kiddies are new to hacking and at the same time do not have many interests in developing coding skills or find bugs of their own in systems; rather they prefer downloading of available tools (developed by elite hackers) and use them to break any system or network. They just try to gain attention of their friend circles.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suicide Hackers are those _____
((OPTION_A)) THIS IS MANDATORY OPTION	who break a system for some specific purpose with or without keeping in mind that they may suffer long term imprisonment due to their malicious activity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	individuals with no knowledge of codes but an expert in using hacking tools

((OPTION_C)) This is optional	who know the consequences of their hacking activities and hence try to prevent them by erasing their digital footprints
((OPTION_D)) This is optional	who are employed in an organization to do malicious activities on other firms
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Suicide hackers are those who break into any network or system with or without knowing the consequences of the cyber crime and its penalty. There are some suicide hackers who intentionally do crimes and get caught to bring their names in the headlines.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Criminal minded individuals who work for terrorist organizations and steal information of nations and other secret intelligence are _____
((OPTION_A)) THIS IS MANDATORY OPTION	State sponsored hackers
((OPTION_B)) THIS IS ALSO MANDATORY	Blue Hat Hackers

OPTION	
((OPTION_C)) This is optional	Cyber Terrorists
((OPTION_D)) This is optional	Red Hat Hackers
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Cyber Terrorists are very expert programmers and cyber criminals who hide themselves while doing malicious activities over the internet and they are smart enough to hide themselves or their tracks of action. They are hired for gaining unauthorised access to nation's data centres or break into the network of intelligence agencies.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	are those individuals who maintain and handles IT security in any firm or organization.
((OPTION_A)) THIS IS MANDATORY OPTION	IT Security Engineer
((OPTION_B))	Cyber Security Interns

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Software Security Specialist
((OPTION_D)) This is optional	Security Auditor
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	This is an intermediary level of position of an individual in an organization or firm who builds and preserves different systems and its associated security tools of the firm of organization to which he/she belongs.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Role of security auditor is to _____
((OPTION_A)) THIS IS MANDATORY OPTION	secure the network

((OPTION_B)) THIS IS ALSO MANDATORY OPTION	probe for safety and security of organization's security components and systems
((OPTION_C)) This is optional	detects and prevents cyber attacks and threats to organization
((OPTION_D)) This is optional	does penetration testing on different web applications
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Security auditors are those who conduct auditing of various computer and network systems on an organization or company and reports the safety and security issues as well as helps in suggesting improvements or enhancements in any particular system that is threat prone.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are senior level corporate employees who have the role and responsibilities of creating and designing secured network or security structures.
((OPTION_A)) THIS IS MANDATORY	Ethical Hackers

OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Chief Technical Officer
((OPTION_C)) This is optional	IT Security Engineers
((OPTION_D)) This is optional	Security Architect
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Security architect are those senior grade employees of an organization who are in charge of building, designing, implementing and testing of secured network topologies, protocols as well as secured computers in an organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Governments hired some highly skilled hackers. These types of hackers are termed as _____
((OPTION_A)) THIS IS	Special Hackers

MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Government Hackers
((OPTION_C))  This is optional	Cyber Intelligence Agents
((OPTION_D))  This is optional	Nation / State sponsored hackers
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Nation / State sponsored hackers are specific individuals who are employed or hired by the government of that nation or state and protect the nation from cyber terrorists and other groups or individuals and to reveal their plans, communications and actions.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The full form of Malware is _____
((OPTION_A))	Malfunctioned Software

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Multipurpose Software
((OPTION_C))  This is optional	) Malicious Software
((OPTION_D))  This is optional	Malfunctioning of Security
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Different types of harmful software and programs that can pose threats to a system, network or anything related to cyberspace are termed as Malware. Examples of some common malware are Virus, Trojans, Ransomware, spyware, worms, rootkits etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who deploy Malwares to a system or network?

((OPTION_A)) THIS IS MANDATORY OPTION	Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Criminal organizations, gray hat hackers, Malware developers, Penetration testers
((OPTION_C)) This is optional	) Criminal organizations, Black hat hackers, software developers, cyber-terrorists
((OPTION_D)) This is optional	Criminal organizations, White hat hackers, malware developers, cyber-terrorists
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Criminal-minded organizations, groups and individuals cyber-terrorist groups, Black hat hackers, malware developers etc are those who can deploy malwares to any target system or network in order to deface that system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	_____ is a code injecting method used for attacking the database of a system / website.

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	HTML injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SQL Injection
((OPTION_C)) This is optional	Malicious code injection
((OPTION_D)) This is optional	XML Injection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	SQLi (Structured Query Language Injection) is a popular attack where SQL code is targeted or injected; for breaking the web application having SQL vulnerabilities. This allows the attacker to run malicious code and take access to the database of that server.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN	This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here?

CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	SQL injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	HTML Injection
((OPTION_C)) This is optional	Cross Site Scripting (XSS)
((OPTION_D)) This is optional	Cross Site Request Forgery (XSRF)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	XSS attack can be infused by putting the malicious code (which gets automatically run) in any comment section or feedback section of any webpage (usually a blogging page). This can hamper the reputation of a site and the attacker may place any private data or personal credentials.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cyber-crime
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cyber Attack
((OPTION_C)) This is optional	System hijacking
((OPTION_D)) This is optional	Digital crime
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cyber attack is an umbrella term used to classify different computer & network attacks or activities such as extortion, identity theft, email hacking, digital spying, stealing hardware, mobile hacking and physical security breaching.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A)) THIS IS MANDATORY OPTION	flood
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C)) This is optional	unchanged default password
((OPTION_D)) This is optional	latest patches and updates not done
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a set of conventions & rules set for communicating two or more devices residing in the same network?
((OPTION_A))  THIS IS MANDATORY OPTION	Security policies
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Protocols
((OPTION_C))  This is optional	Wireless network
((OPTION_D))  This is optional	Network algorithms
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Network protocols are designed with mechanisms for identifying devices and make connections between them. In addition, some proper rules are defined as to how data packets will be sent and received.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The field that covers a variety of computer networks, both public and private, that are used in everyday jobs
((OPTION_A)) THIS IS MANDATORY OPTION	Artificial Intelligence
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ML
((OPTION_C)) This is optional	Network Security
((OPTION_D)) This is optional	IT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Network security covers a variety of computer networks, both private and public. Everyday jobs like conducting transactions and communications among business and government agencies etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network Security provides authentication and access control for resources.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is not an objective of network security?
((OPTION_A)) THIS IS MANDATORY OPTION	Identification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	Access control
((OPTION_D)) This is optional	Lock
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The Identification, Authentication and Access control are the objectives of network security. There is no such thing called lock.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is a part of network identification?
((OPTION_A)) THIS IS MANDATORY OPTION	UserID
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Password
((OPTION_C)) This is optional	OTP
((OPTION_D)) This is optional	fingerprint
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The answer is UserID. UserID is a part of identification. UserID can be a combination of username, user student number etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of verifying the identity of a user.
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Verification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	It is called an authentication. It is typically based on passwords, smart card, fingerprint, etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security features that control that can access resources in the OS
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Access control
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Access control refers to the security features. Applications call access control to provide resources

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
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OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm in encryption is called
((OPTION_A)) THIS IS MANDATORY OPTION	Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Procedure
((OPTION_C)) This is optional	Cipher
((OPTION_D)) This is optional	Module
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	An algorithm used in encryption is referred to as a cipher. cipher is an algorithm for performing encryption or decryption

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The information that gets transformed in encryption is
((OPTION_A)) THIS IS MANDATORY OPTION	Plain text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Parallel text
((OPTION_C)) This is optional	Encrypted text
((OPTION_D)) This is optional	Decrypted text
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The text that gets transformed is called plain text. The algorithm used is called cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The type of threats on the security of a computer system or network are..... i) Interruption ii) Interception iii) Modification iv) Creation v) Fabrication
((OPTION_A)) THIS IS MANDATORY OPTION	i, ii, iii and iv only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii, iii, iv and v only
((OPTION_C)) This is optional	i, ii, iii and v only
((OPTION_D)) This is optional	All i, ii, iii, iv and v
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is computer threat?
((OPTION_A))  THIS IS MANDATORY OPTION	Phishing
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Soliciting
((OPTION_C))  This is optional	DoS attack
((OPTION_D))  This is optional	stalking
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a term used in cryptography that refers to a message before encryption or after decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PLAIN TEXT
((OPTION_C)) This is optional	Original text
((OPTION_D)) This is optional	Plain script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ is encrypted text
((OPTION_A)) THIS IS MANDATORY OPTION	cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cipher script
((OPTION_C)) This is optional	secret text
((OPTION_D)) This is optional	secret script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An _____ along with a key is used in the encryption
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption algorithm
((OPTION_C)) This is optional	encryption algorithm
((OPTION_D)) This is optional	plain text algorithm
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that sensitive information are accessed only by an authorized person and kept away from those not authorized to possess them.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Cryptography
((OPTION_D)) This is optional	Integrity
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information are in a format that is true and correct to its original purposes.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	integrity
((OPTION_D)) This is optional	cryptography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information and resources are available to those who need them.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Availability</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Confidentiality</b>
((OPTION_C)) This is optional	<b>Cryptography</b>
((OPTION_D)) This is optional	<b>Integrity</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of identifying an individual, usually based on a username and password.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither authentication nor authorization</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of giving individuals access to system objects based on their identity.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither congestion control nor quality of service</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	when someone gains access to a server, website, or other sensitive data using someone else's account details called as
((OPTION_A)) THIS IS MANDATORY OPTION	Authorized access
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Access control
((OPTION_C)) This is optional	Unauthorized access
((OPTION_D)) This is optional	access
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Person who tries and exploits a computer system for a reason which can be money, a social cause, fun etc.called as
((OPTION_A)) THIS IS MANDATORY OPTION	Thief
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	hacker
((OPTION_C)) This is optional	attacker
((OPTION_D)) This is optional	criminal
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is an action or event that might compromise the security.
((OPTION_A))  THIS IS MANDATORY OPTION	Threat
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C))  This is optional	Protect
((OPTION_D))  This is optional	attack
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a weakness, a design problem or implementation error in a system that can lead to an unexpected and undesirable event regarding security system
((OPTION_A)) THIS IS MANDATORY OPTION	threat
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C)) This is optional	Attack
((OPTION_D)) This is optional	Protection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a software that operates on different OS which is used to prevent from malicious software.
((OPTION_A)) THIS IS MANDATORY OPTION	Anti virus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	virus
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	risk
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a technique that a hacker uses to stole data by a person for different purposes by psychological manipulation combined with social scenes.
((OPTION_A)) THIS IS MANDATORY OPTION	Social Engineering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IT engineering
((OPTION_C)) This is optional	Psychology
((OPTION_D)) This is optional	Social engineering
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is a software or hardware which is used to filter network traffic based on rules.
((OPTION_A)) THIS IS MANDATORY OPTION	antivirus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firewall
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	keylogger
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not Basic Functions of Antivirus Engines
((OPTION_A)) THIS IS MANDATORY OPTION	Scanning
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity Checking
((OPTION_C)) This is optional	Interception
((OPTION_D)) This is optional	Evesdropping
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is name of antivirus
((OPTION_A))  THIS IS MANDATORY OPTION	AVG
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	PAN
((OPTION_C))  This is optional	SACK
((OPTION_D))  This is optional	FIREP
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hacking tools that can be found very easily by everyone just by googling and they are endless.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Potential Losses due to Security Attacks doesn't involve _____
((OPTION_A)) THIS IS MANDATORY OPTION	Losing your data
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Bad usage of your computer resources
((OPTION_C)) This is optional	Reputation gain
((OPTION_D)) This is optional	Identity theft
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Reputation loss is part of it and not gain

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not malware category?
((OPTION_A))  THIS IS MANDATORY OPTION	Worms
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Viruses
((OPTION_C))  This is optional	Trojans
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	All are malware categories

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ encrypts all your data when your computer gets infected and the second is to roll back the data at a specific time you want.
((OPTION_A)) THIS IS MANDATORY OPTION	ransomware
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firmware
((OPTION_C)) This is optional	middleware
((OPTION_D)) This is optional	Cyber ware
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	this network is created between two secure network devices like two firewalls.
((OPTION_A)) THIS IS MANDATORY OPTION	LAN
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAN
((OPTION_C)) This is optional	VPN
((OPTION_D)) This is optional	WAN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Virtual private network

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Name of the attack when integrity is compromised is called as _____
((OPTION_A))  THIS IS MANDATORY OPTION	Fabrication
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	interception
((OPTION_C))  This is optional	Interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack made on confidentiality is __
((OPTION_A))  THIS IS MANDATORY OPTION	interception
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C))  This is optional	interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	an attack on availability such as a denial of service attack (or DOS)
((OPTION_A))  THIS IS MANDATORY OPTION	Interruption
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Interception
((OPTION_C))  This is optional	fabrication
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An unauthorized party inserts counterfeit objects into the system and basically attacks the authenticity of the system.
((OPTION_A)) THIS IS MANDATORY OPTION	modification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	interruption
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack in which a network service is made degraded or unavailable for legitimate use
((OPTION_A)) THIS IS MANDATORY OPTION	Interruption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is assurance that someone cannot deny something.
((OPTION_A))  THIS IS MANDATORY OPTION	availability
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	confidentiality
((OPTION_C))  This is optional	Access control
((OPTION_D))  This is optional	Non-repudiation
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the purpose of a Denial of Service attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Exploit a weakness in the TCP/IP stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	To execute a Trojan on a system
((OPTION_C))  This is optional	To overload a system so it is no longer operational
((OPTION_D))  This is optional	To shutdown services by turning them off
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	DoS attacks force systems to stop responding by overloading the processing of the system

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What are some of the most common vulnerabilities that exist in a network or system?
((OPTION_A)) THIS IS MANDATORY OPTION	Changing manufacturer, or recommended, settings of a newly installed application.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additional unused features on commercial software packages
((OPTION_C)) This is optional	Utilizing open source application code
((OPTION_D)) This is optional	Balancing security concerns with functionality and ease of use of a system.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Linux is an open source code and considered to have greater security than the commercial Windows environment

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Sniffing is used to perform _____ fingerprinting
((OPTION_A))  THIS IS MANDATORY OPTION	Passive stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active stack
((OPTION_C))  This is optional	Passive banner grabbing
((OPTION_D))  This is optional	Scanned
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Passive stack fingerprinting uses sniffing technologies instead of scanning

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a principle of data security?
((OPTION_A))  THIS IS MANDATORY OPTION	Data Confidentiality
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data Integrity
((OPTION_C))  This is optional	Authentication
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following attacks is a passive attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Masquerade
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Modification of message
((OPTION_C))  This is optional	Denial of service
((OPTION_D))  This is optional	Traffic analysis
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	In a passive attack, the attacker does not modify any part of the data. His attempt is only to obtain the information and not to modify it. From the mentioned options, this happens only in Traffic analysis in which the attacker monitors the pattern of transmission. The rest other options are examples of active attacks.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options correctly defines the Brute force attack?
((OPTION_A)) THIS IS MANDATORY OPTION	Brutally forcing the user to share the useful information like pins and passwords.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Trying every possible key to decrypt the message.
((OPTION_C)) This is optional	One entity pretends to be some other entity
((OPTION_D)) This is optional	The message or information is modified before sending it to the receiver.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"A key is a string of bits used by a cryptographic algorithm to transform plain text into ciphertext." Which of the following is capable of becoming a key in a cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	Integer value
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Square matrix
((OPTION_C)) This is optional	An array of characters
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	measures taken by any enterprise or organisation to secure its computer network and data using both hardware and software systems is called as
((OPTION_A)) THIS IS MANDATORY OPTION	Network security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Information security
((OPTION_C)) This is optional	Cyber security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	phishing and pre-texting is part of _____
((OPTION_A)) THIS IS MANDATORY OPTION	<b>NETWORK SECURITY</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>CYBER SECURITY</b>
((OPTION_C)) This is optional	Internet security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures to protect the transit data only.
((OPTION_A)) THIS IS MANDATORY OPTION	NETWORK SECURITY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet security
((OPTION_C)) This is optional	Information security
((OPTION_D)) This is optional	Cyber security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is danger for <b>Integrity</b> as well as <b>availability</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is danger for <b>Confidentiality</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ attack attention is on detection.
((OPTION_A))  THIS IS MANDATORY OPTION	Passive attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active Attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ attack attention is on prevention.
((OPTION_A))  THIS IS MANDATORY OPTION	Active attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Due to ___ attack system is always damaged.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	Both active and passive
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	due to _____ attack, there is no any harm to the system.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	Both active and passive
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack is tough to restrict from entering systems or networks.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Attack is easy to prohibited in comparison to _____ attack.
((OPTION_A))  THIS IS MANDATORY OPTION	Active,passive
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive,active
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not active attack
((OPTION_A)) THIS IS MANDATORY OPTION	Denial of service (DoS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	replay
((OPTION_C)) This is optional	Trojans
((OPTION_D)) This is optional	traffic analysis
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In __ <b>attack</b> , an attacker tries to modify the content of the messages.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ <b>attack</b> , an attacker observes the messages, copy them and may use them for malicious purposes
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is state of being free from potential threats or dangers
((OPTION_A)) THIS IS MANDATORY OPTION	privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	freedom
((OPTION_C)) This is optional	security
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ refers to the state of being free from unwanted attention.
((OPTION_A)) THIS IS MANDATORY OPTION	Freedom
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Privacy
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ can be achieved without _____ but _____ cannot be achieved without _____.
((OPTION_A)) THIS IS MANDATORY OPTION	Security,privacy,privacy security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy,security,security,privacy
((OPTION_C)) This is optional	Security,privacy,privacy,privacy
((OPTION_D)) This is optional	Security,security,privacy,security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program refers to a set of protocols and regulations set in place to protect all the confidential information assets and resources that an organization collects and owns.
((OPTION_A)) THIS IS MANDATORY OPTION	Privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program focuses on protecting only personal information such as log in credentials, passwords, etc.
((OPTION_A)) THIS IS MANDATORY OPTION	Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

## ICS UNIT 2

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following Algorithms does not belong to symmetric encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	3DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	RC5
((OPTION_D)) This is optional	IDEA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Assymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?
((OPTION_A)) THIS IS MANDATORY OPTION	Not true, the message can also be decrypted with the Public Key.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A so called "one way function with back door" is applied for the encryption
((OPTION_C)) This is optional	The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.
((OPTION_D)) This is optional	The encrypted message contains the function for decryption which identifies the Private Key.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	An one-way function is a function which a computer can calculate quickly, but whose reversal would last months or years. An one-way function with back door can be reversed with the help of a couple of additional information (the back door), but scarcely

	without this information. The information for the back door is contained in the private Key.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the largest disadvantage of the symmetric Encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	More complex and therefore more time-consuming calculations.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Problem of the secure transmission of the Secret Key
((OPTION_C)) This is optional	Less secure encryption function.
((OPTION_D)) This is optional	Isn't used any more
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION))	As there is only one key in the symmetrical encryption, this must

)) This is also optional	be known by both sender and recipient and this key is sufficient to decrypt the secret message. Therefore it must be exchanged between sender and receiver in such a manner that an unauthorized person can in no case take possession of it.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the principle of the encryption using a key?
((OPTION_A)) THIS IS MANDATORY OPTION	The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	The key contains the secret function for encryption including parameters. Only a password can activate the key.
((OPTION_C)) This is optional	All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.
((OPTION_D)) This is optional	The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	C

E	
((EXPLANATION)) This is also optional	The encoding of a message is calculated by an algorithm. If always the same algorithm would be used, it would be easy to crack intercepted messages. However, it isn't possible to invent a new algorithm whenever the old one was cracked, therefore the possibility to parameterize algorithms is needed and this is the assignment of the key. All algorithms must be public, only the keys are secret (principle of Kerckhoff, Dutch cryptographer during 19th century).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If the sender and receiver use different keys, the system is referred to as conventional cipher system
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Such a system is called asymmetric, two-key, or public-key cipher system

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Use Caesar's Cipher to decipher the following HQFUBSWHG WHAW
((OPTION_A)) THIS IS MANDATORY OPTION	ABANDONED LOCK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ENCRYPTED TEXT
((OPTION_C)) This is optional	ABANDONED TEXT
((OPTION_D)) This is optional	ENCRYPTED LOCK
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher uses $C = (p+3) \text{ mod } 26$ to encrypt.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Caesar Cipher is an example of
((OPTION_A)) THIS IS MANDATORY OPTION	Poly-alphabetic Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Mono-alphabetic Cipher
((OPTION_C)) This is optional	Multi-alphabetic Cipher
((OPTION_D)) This is optional	Bi-alphabetic Cipher
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher is an example of Mono-alphabetic cipher, as single alphabets are encrypted or decrypted at a time.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Monoalphabetic ciphers are easier to break because they reflect the frequency of the original alphabet.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis
((OPTION_A)) THIS IS MANDATORY OPTION	Random Polyalphabetic, Plaintext, Playfair
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Random Polyalphabetic, Playfair, Vignere
((OPTION_C)) This is optional	Random Polyalphabetic, Vignere, Playfair, Plaintext
((OPTION_D)) This is optional	Random Polyalphabetic, Plaintext, Beaufort, Playfair
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Random Polyalphabetic is the most resistant to frequency analysis, followed by Vignere, Playfair and then Plaintext.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-
((OPTION_A)) THIS IS MANDATORY OPTION	abqdnnewuwjphfvrrtrfznsdokvl
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	abqdmwwuwjphfvyyrfznydokvl
((OPTION_C)) This is optional	tbqyrvmwuwjphfvyyrfznydokvl
((OPTION_D)) This is optional	baiuvmwuwjphfoeiyrfznydokvl
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	nlazeiiblji
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nlazeiiblji
((OPTION_C)) This is optional	olaaeiiblki
((OPTION_D)) This is optional	mlaaeiiblki
((OPTION_E)) This is optional. If optional keep empty so that	

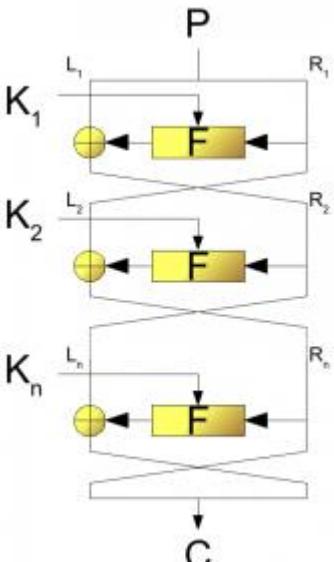
system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Confusion hides the relationship between the ciphertext and the plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Confusion hides the relationship between the ciphertext and the key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The S-Box is used to provide confusion, as it is dependent on the unknown key.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	false
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The S-Box is used to provide confusion, as it is dependent on the unknown key. The P-Box is fixed, and there is no confusion due to it, but it provides diffusion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This is an example of 
((OPTION_A)) THIS IS MANDATORY OPTION	SP Networks
((OPTION_B)) THIS IS ALSO MANDATORY	Feistel Cipher

OPTION	
((OPTION_C)) This is optional	Hash Algorithm
((OPTION_D)) This is optional	Hill Cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following slows the cryptographic algorithm –  1) Increase in Number of rounds 2) Decrease in Block size 3) Decrease in Key Size 4) Increase in Sub key Generation
((OPTION_A)) THIS IS MANDATORY OPTION	1 and 3
((OPTION_B)) THIS IS ALSO MANDATORY	2 and 3

OPTION	
((OPTION_C)) This is optional	3 and 4
((OPTION_D)) This is optional	2 and 4
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Increase in any of the above 4 leads to slowing of the cipher algorithm i.e. more computational time will be required.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES follows
((OPTION_A)) THIS IS MANDATORY OPTION	Hash Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY	Caesars Cipher

OPTION	
((OPTION_C)) This is optional	Feistel Cipher Structure
((OPTION_D)) This is optional	SP Network
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES Algorithm Cipher System consists of _____ rounds (iterations) each with a round key
((OPTION_A)) THIS IS MANDATORY OPTION	12
((OPTION_B)) THIS IS ALSO MANDATORY	18

OPTION	
((OPTION_C)) This is optional	9
((OPTION_D)) This is optional	16
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The DES Algorithm Cipher System consists of 16 rounds (iterations) each with a round key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES algorithm has a key length of
((OPTION_A)) THIS IS MANDATORY OPTION	128 Bits
((OPTION_B)) THIS IS ALSO MANDATORY	32 Bits

OPTION	
((OPTION_C)) This is optional	64 Bits
((OPTION_D)) This is optional	16 Bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	56 bits are used, the rest 8 bits are parity bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	48, 32
((OPTION_B)) THIS IS ALSO MANDATORY	64,32

OPTION	
((OPTION_C)) This is optional	56, 24
((OPTION_D)) This is optional	32, 32
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____
((OPTION_A)) THIS IS MANDATORY OPTION	Scaling of the existing bits
((OPTION_B)) THIS IS ALSO MANDATORY	Duplication of the existing bits

<b>OPTION</b>	
((OPTION_C)) This is optional	Addition of zeros
((OPTION_D)) This is optional	Addition of ones
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits. This input is first expanded to 48 bits (permutation plus an expansion), that involves duplication of 16 of the bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Initial Permutation table/matrix is of size
((OPTION_A)) THIS IS MANDATORY OPTION	16×8
((OPTION_B)) THIS IS ALSO MANDATORY	12×8

OPTION	
((OPTION_C)) This is optional	8×8
((OPTION_D)) This is optional	4×8
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	There are 64 bits to permute and this requires a 8×8 matrix.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The number of unique substitution boxes in DES after the 48 bit XOR operation are
((OPTION_A)) THIS IS MANDATORY OPTION	8
((OPTION_B)) THIS IS ALSO MANDATORY	4

OPTION	
((OPTION_C)) This is optional	6
((OPTION_D)) This is optional	12
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The substitution consists of a set of 8 S-boxes, each of which accepts 6 bits as input and produces 4 bits as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During decryption, we use the Inverse Initial Permutation (IP-1) before the IP.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	IP-1 is the first step and the last step is IP during decryption.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A preferable cryptographic algorithm should have a good avalanche effect.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Thus statement is true as a change in one bit of the plaintext or one bit of the key should produce a change in many bits of the ciphertext. This is referred to as the avalanche effect.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the size(in bits) of the key in the SDES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	24
((OPTION_B)) THIS IS ALSO MANDATORY	16

OPTION	
((OPTION_C)) This is optional	20
((OPTION_D)) This is optional	10
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	The size of the key in the SDES algorithm is 10 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	GCD(a,b) is the same as GCD( a , b ).
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	This is true. $\gcd(60,24) = \gcd(60,-24) = 12.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 1160718174 and 316258250 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	882
((OPTION_B)) THIS IS ALSO MANDATORY	770

OPTION	
((OPTION_C)) This is optional	1078
((OPTION_D)) This is optional	1225
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$\text{GCD}(1160718174, 316258250) = 1078$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 102947526 and 239821932 using Euclidean algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	$\text{GCD}(102947526, 239821932) = 6.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 8376238 and 1921023 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	13
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	17
((OPTION_D)) This is optional	7
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	$\text{GCD}(8376238, 1921023) = 13.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 1234 mod 4321 is
((OPTION_A)) THIS IS MANDATORY OPTION	3239
((OPTION_B)) THIS IS ALSO MANDATORY	3213

OPTION	
((OPTION_C)) This is optional	3242
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The multiplicative Inverse of 1234 mod 4321 is 3239.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 550 mod 1769 is
((OPTION_A)) THIS IS MANDATORY OPTION	434
((OPTION_B)) THIS IS ALSO MANDATORY	224

OPTION	
((OPTION_C)) This is optional	550
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The multiplicative Inverse of 550 mod 1769 is 550.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p><b>You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,</b></p> $A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$ <p><b>Is the given matrix 'A', a valid key to be used for encryption?</b></p>
((OPTION_A)) THIS IS MANDATORY OPTION	Yes
((OPTION_B))	No

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Can't be determined
((OPTION_D)) This is optional	Data insufficient
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist.</p> <p>Here, in this case,</p> $  A   = 0$ <p>Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the <a href="#">Hill cipher</a>.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	The input text is divided into two parts: one being left half and another one being right half.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Swapping of the left and right halves are performed after each round.
((OPTION_C)) This is optional	The plain text is converted into a matrix form first
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Among the following given options, chose the strongest encryption technique

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	DES ( Data Encryption Standard))
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Double DES
((OPTION_C)) This is optional	Triple DES
((OPTION_D)) This is optional	AES (Advance Encryption Standard)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	<p><b>Consider the following steps,</b></p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift Rows</li> </ul>

IMAGES ALSO	<p>iii. Mix columns iv. Add round key</p> <p><b>The above steps are performed in each round of which of the following ciphers?</b></p>
((OPTION_A))  THIS IS MANDATORY OPTION	Rail fence cipher
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data Encryption Standard (DES)
((OPTION_C))  This is optional	Advance Encryption Standard (AES)
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ algorithm transforms ciphertext to plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ cipher replaces one character with another character.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ cipher reorders the plaintext characters to create a ciphertext.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the receiver uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either a or b
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is a(n) _____ method adopted by the U.S. government.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	either (a) or (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are _____ ciphers.
((OPTION_A)) THIS IS MANDATORY OPTION	block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	stream
((OPTION_C)) This is optional	field
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ cipher, the same key is used by both the sender and receiver.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ciphers can be categorized into two broad categories: monoalphabetic and polyalphabetic.
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the sender uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a(n) _____ cipher, a pair of keys is used.
((OPTION_A))  THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C))  This is optional	either (a) or (b)
((OPTION_D))  This is optional	neither (a) nor (b)
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2	2
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES uses a _____ bit block size and a key size of _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	128; 128 or 256
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64; 128 or 192
((OPTION_C)) This is optional	256; 128, 192, or 256
((OPTION_D)) This is optional	128; 128, 192, or 256
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	It uses a 128-bit block size and a key size of 128, 192, or 256 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Like DES, AES also uses Feistel Structure.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES does not use a Feistel structure. Instead, each full round consists of four separate functions: -byte substitution -Permutation -arithmetic operations over a finite field, and -XOR with a key.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The $4 \times 4$ byte matrices in the AES algorithm are called
((OPTION_A)) THIS IS MANDATORY OPTION	States
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Words
((OPTION_C)) This is optional	Transitions
((OPTION_D)) This is optional	Permutations
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is a type of substitution cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	poly alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition cipher
((OPTION_C)) This is optional	Columnar cipher
((OPTION_D)) This is optional	Rail fence cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In substitution cipher the plain text is replaced by cipher text according to a fixed rule. There are two types of substitution cipher- Mono alphabetic and Poly alphabetic cipher.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following correctly defines poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	a substitution based cipher which uses multiple substitution at different positions
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a substitution based cipher which uses fixed substitution over entire message
((OPTION_C)) This is optional	a transposition based cipher which uses multiple substitution at different positions
((OPTION_D)) This is optional	A transposition based cipher which uses fixed substitution over entire message
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Poly alphabetic cipher is a type of substitution cipher. It uses multiple substitution at different positions in order to cipher the plain text.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a type of poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Rotor cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hill cipher
((OPTION_C)) This is optional	One time pad cipher
((OPTION_D)) This is optional	Affine cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	In poly alphabetic cipher each symbol of plain text is replaced by a different cipher text regardless of its occurrence. Out of the given options, only affine cipher is not a poly alphabetic cipher.

((MARKS)) QUESTION IS OF	2
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	We are provided the plain text "SUN". You need to convert the given plain text into ciphertext under the Ceasar cipher encryption technique. Which of the following options is the correct ciphertext for the given text if the key is 2?
((OPTION_A)) THIS IS MANDATORY OPTION	UWP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NUS
((OPTION_C)) This is optional	WUP
((OPTION_D)) This is optional	QSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>In the Caesar cipher technique, the encryption is performed as follows,</p> $E(P, K) = (P + K) \bmod 26$ <p>Therefore,</p> $E(S, 2) = (18 + 2) \bmod 26 = 20 = U$ $E(U, 2) = (20 + 2) \bmod 26 = 22 = W$ $E(N, 2) = (13 + 2) \bmod 26 = 15 = P$ <p>Hence, the ciphertext is "UWP".</p>

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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following cipher techniques include the involvement of matrix operations in their algorithms of encryption and decryption?
((OPTION_A)) THIS IS MANDATORY OPTION	<u>Hill Cipher</u>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<u>Playfair cipher</u>
((OPTION_C)) This is optional	Both a and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also	The hill cipher includes a square matrix as the key, and in Playfair cipher, we create a 5X5 matrix using the given key string. Hence,

optional	both these ciphers include the use of matrices.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Playfair cipher is an example of _____
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C)) This is optional	transposition cipher
((OPTION_D)) This is optional	additive cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	Playfair cipher is a substitution cipher. It falls under the category of poly alphabetic cipher as it uses multiple substitution at different positions in order to cipher the plain text.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Encryption in Playfair cipher is done using _
((OPTION_A)) THIS IS MANDATORY OPTION	a 5×5 table
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a 13×2 table
((OPTION_C)) This is optional	vigenere table
((OPTION_D)) This is optional	a 6×6 table
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A

((EXPLANATION)) This is also optional	
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the plain text corresponding to cipher text "BPKYFS" if playfair cipher is used with keyword as "SECRET" (assuming j is combined with i)?
((OPTION_A))  THIS IS MANDATORY OPTION	INDIAN
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	WORLD
((OPTION_C))  This is optional	DOLLAR
((OPTION_D))  This is optional	HELLO
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C

((EXPLANATION)) This is also optional	To decrypt the message we follow the reverse procedure. The table is formed in the same manner. Applying this we get the plain text to be "DOLLAR".
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair are identical?
((OPTION_A)) THIS IS MANDATORY OPTION	then that pair is neglected
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a null(or x) is added in between the letters
((OPTION_C)) This is optional	one of the identical letter is replaced by some other letter
((OPTION_D)) This is optional	then both of the letters are replaced by the letter appearing just next in the row
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	In playfair cipher if the letters in a pair are identical then a null is added in between the letters. Any letter can be used as a null as long as that letter is not the one being repeated.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same row?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter at the corner of the row
((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	If the letters in a pair appear in same row then they are replaced by the letters appearing immediately right to them respectively. If the element to be replaced appears at the corner of the row then we wrap around to the left side of that row.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the ciphered text if the string "SANFOUNDRY" is given as input to the code of playfair cipher with keyword as "SECRET" (assuming j is combined with i)?
((OPTION_A)) THIS IS MANDATORY OPTION	ZHQAPNPAFR
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AHQAPNPAFR
((OPTION_C)) This is optional	HAQAPNPAFR
((OPTION_D)) This is optional	QHAAPNPAFR
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or	B

E	
((EXPLANATION)) This is also optional	<p>For encrypting the plain text using playfair cipher we use a <math>5 \times 5</math> table that is constructed by using keyword. Then we apply rules for encryption in order to get the censored text. Table is given as under-</p> <p>S E C R T</p> <p>A B D F G</p> <p>H I K L M</p> <p>N O P Q U</p> <p>V W X Y Z</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letters at the corner of the row
((OPTION_D))	that pair is neglected

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	If the letters in a pair appear in the same column then they are replaced by the letters appearing immediately below them respectively. If the element to be replaced appears at the corner of the column then we wrap around to the top side of that column.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair does not appear in same row or column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter of the same row at the corner of the rectangle defined by the original pair respectively

((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	If the letters in a pair does not appear in same row or column then they are replaced by the letters of the same row at the corner of the rectangle defined by the original pair respectively. The order of letters should be maintained.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Columnar cipher falls under the category of?
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C))	additive cipher

This is optional	
((OPTION_D)) This is optional	Transposition cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Columnar cipher is a transposition cipher. It falls under the category of transposition cipher as it encrypts the plain text by rearranging its letters.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following ciphered text would have NOT used transposition cipher for encryption of the plain text "CIPHER"?
((OPTION_A)) THIS IS MANDATORY OPTION	EPIHRC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EHIPCR
((OPTION_C))	DTIPRC

This is optional	
((OPTION_D))	HRIPEC
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	We know that transposition cipher encrypts the plain text by shuffling the letters of the plain text. So out of the given options, only “DTIPRC” does not have the same set of letters as “CIPHER”.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many columns do we need to have in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	4
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	5
((OPTION_C))	6

This is optional	
((OPTION_D))	7
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So in this case it will be equal to 6.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the encrypted text corresponding to plain text “CLASSIFIED” using columnar transposition cipher with a keyword as “GAMES”?
((OPTION_A)) THIS IS MANDATORY OPTION	LFDSIASECI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SECIAISDFL
((OPTION_C))	CILFAISESD

This is optional																					
((OPTION_D))	IFSECIAISD																				
This is optional																					
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CH OICE)) Either A or B or C or D or E	D																				
((EXPLANATION )) This is also optional	<p>For encrypting using columnar cipher we have to arrange the letters of the plain text in a table which has the same number of columns as the letters of the keyword. Then the letters of the keyword are arranged in alphabetical order and we read along each column.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>1</td><td>4</td><td>2</td><td>5</td></tr> <tr><td>G</td><td>A</td><td>M</td><td>E</td><td>S</td></tr> <tr><td>C</td><td>L</td><td>A</td><td>S</td><td>S</td></tr> <tr><td>I</td><td>F</td><td>I</td><td>E</td><td>D</td></tr> </table> <p>So the ciphered text will be “IFSECIAISD”.</p>	3	1	4	2	5	G	A	M	E	S	C	L	A	S	S	I	F	I	E	D
3	1	4	2	5																	
G	A	M	E	S																	
C	L	A	S	S																	
I	F	I	E	D																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many rows will the letters of the plain text occupy in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B))	2

THIS IS ALSO MANDATORY OPTION																			
((OPTION_C)) This is optional	3																		
((OPTION_D)) This is optional	4																		
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																			
((CORRECT_CHOICE)) Either A or B or C or D or E	B																		
((EXPLANATION)) This is also optional	<p>Explanation: The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So when we will write the letters of the plain text row wise then there will be 2 rows of plain text in this case. The table is shown below :-</p> <table> <tr> <td>S</td> <td>E</td> <td>C</td> <td>R</td> <td>E</td> <td>T</td> </tr> <tr> <td>1</td> <td>S</td> <td>A</td> <td>N</td> <td>F</td> <td>O</td> <td>U</td> </tr> <tr> <td>2</td> <td>N</td> <td>D</td> <td>R</td> <td>Y</td> </tr> </table>	S	E	C	R	E	T	1	S	A	N	F	O	U	2	N	D	R	Y
S	E	C	R	E	T														
1	S	A	N	F	O	U													
2	N	D	R	Y															

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following statement is not true regarding columnar transposition cipher?
((OPTION_A)) THIS IS	probability of error is high while deciphering

MANDATORY OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	it cannot be combined with other ciphers
((OPTION_C)) This is optional	it is a traditional symmetric cipher
((OPTION_D)) This is optional	it is a weak cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Although columnar transposition cipher is a weak cipher in itself. But it can be combined with other substitution ciphers so as to improve its security. The probability of error remains high while decoding columnar cipher as it is a lengthy process

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is another data hiding technique which can be used in conjunction with cryptography for the extra-secure method of protecting data.
((OPTION_A))	Cryptography

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Steganography
((OPTION_C))  This is optional	Tomography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Steganography is the technique of hiding data in another raw data. Steganography is another data hiding technique which can be used in conjunction with cryptography for an extra-secure method of protecting data.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is hiding of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Steganography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Steganography helps in hiding any form of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ tool permits security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Chorography
((OPTION_D))  This is optional	Steganography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	A steganography tool is a software tool that permits a security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main motive for using steganography is that hackers or other users can hide a secret message behind a _____

((OPTION_A)) THIS IS MANDATORY OPTION	special file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ordinary file
((OPTION_C)) This is optional	program file
((OPTION_D)) This is optional	encrypted file
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	The main motive for using steganography is that hackers or other users can hide a secret message behind ordinary files. Some steganography tools are SSuite Picsel, rSteg etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	People will normally think it as a normal/regular file and your secret message will pass on without any _____

((OPTION_A)) THIS IS MANDATORY OPTION	Suspicion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	cracking
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Steganography techniques help hackers or other users to conceal covert message behind regular files. People will normally think it as a normal/regular file and your secret message will pass on without any suspicion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	By using _____ you can diminish the chance of data leakage

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C)) This is optional	Chorography
((OPTION_D)) This is optional	Steganography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Hackers or other cyber criminals target ordinary files to hide different data or information within another data file. By using steganography, you can diminish the chance of data leakage.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Which of the following is a mode of operation for the Block ciphers in cryptography?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Electronic Code Book (ECB)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher Block Chaining (CBC)
((OPTION_C)) This is optional	Counter (CTR) mode
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	For which of the following should EBC (Electronic Code Book) process not be used for encryption?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	For large block sizes
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	For fixed block sizes
((OPTION_C)) This is optional	For small block sizes
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	It is preferred that the block size in the ECB technique must be greater than 64 bits. If not, the text is padded to make it of the required length. This is due to some particular words and phrases that may be reused again often so that the same repetitive part of ciphertext can emerge as mixed.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	Which of the following is the main disadvantage of the ECB (Electronic Code Book)?

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	It requires large block size
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Padding is done to make the plain text divisible into blocks of fixed size
((OPTION_C)) This is optional	It is prone to cryptanalysis since there is a direct relationship between plain text and cipher text.
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	In <u>ECB</u> , there lies a direct relation between the plain text and the ciphertext. Therefore, it is easy for an outsider to break the encryption logic and steal the data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options is not correct according to the definition of the Cipher Block Chaining (CBC)?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC is a mode of operation for stream ciphers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Initialization vector (IV) is used in CBC in the initial phase.
((OPTION_C)) This is optional	It has better resistive nature towards cryptanalysis than ECB
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<a href="#">CBC</a> which stands for Cipher Block chaining is a mode of operation for block ciphers and not for stream ciphers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following modes of operations can be followed for both stream ciphers as well as block ciphers?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC (Cipher Block Chaining)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECB (Electronic Code Book)
((OPTION_C)) This is optional	CFB (Cipher text Feed Back)
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	<b>CFB</b> is primarily a mode to derive some characteristics of a stream cipher from a block cipher on the cryptography in cryptoanalysis.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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<p>((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO</p>	<p>All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?</p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift rows</li> <li>iii. Mix columns</li> <li>iv. Add round key</li> </ul>
<p>((OPTION_A)) THIS IS MANDATORY OPTION</p>	<p>i</p>
<p>((OPTION_B)) THIS IS ALSO MANDATORY OPTION</p>	<p>iii</p>
<p>((OPTION_C)) This is optional</p>	<p>All of the mentioned</p>
<p>((OPTION_D)) This is optional</p>	<p>None of the mentioned</p>
<p>((OPTION_E)) This is optional. If optional keep empty so that system will skip this option</p>	
<p>((CORRECT_CHOICE)) Either A or B or C or D or E</p>	<p>B</p>
<p>((EXPLANATION)) This is also optional</p>	<p>In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.</p>

<p>((MARKS))</p>	<p>1</p>
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"The number of rounds in the AES algorithm depends upon the key size being used." Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	128 key size: 10 rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	192 key size: 12 rounds
((OPTION_C)) This is optional	256 key size: 14 rounds
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Avalanche effect
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Completeness
((OPTION_C)) This is optional	Both a. and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For the AES-128 algorithm there are _____ similar rounds and _____ round is different.
((OPTION_A)) THIS IS MANDATORY OPTION	2 pair of 5 similar rounds ; every alternate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	9 ; the last
((OPTION_C)) This is optional	8 ; the first and last
((OPTION_D)) This is optional	10 ; no
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the 4 operations are false for each round in the AES algorithm? i) Substitute Bytes ii) Shift Columns iii) Mix Rows iv) XOR Key
((OPTION_A)) THIS IS MANDATORY OPTION	i) only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii) iii) and iv)
((OPTION_C)) This is optional	ii) and iii)
((OPTION_D)) This is optional	only iv
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES rounds involve substitute bytes, shift rows, mix columns and addition of round key.

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There is an addition of round key before the start of the AES round algorithms.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In AES the final round contains only three transformations, and there is an initial single transformation (Add Round Key) before the first round which can be considered Round 0. Each transformation takes $4 \times 4$ matrixes as input and produces a $4 \times 4$ matrix as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1																
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the Shifted Row transformation for the matrix bellow?  <table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_A))  THIS IS MANDATORY OPTION	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	<table border="1"> <tr> <td>72</td><td>2B</td><td>D7</td><td>FE</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>63</td><td>AD</td><td>01</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	72	2B	D7	FE	A4	6B	6B	77	63	AD	01	F0	30	D7	AF	FE
72	2B	D7	FE														
A4	6B	6B	77														
63	AD	01	F0														
30	D7	AF	FE														
((OPTION_C))  This is optional	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>77</td><td>A4</td><td>6B</td><td>6B</td></tr> <tr> <td>F0</td><td>63</td><td>AD</td><td>01</td></tr> <tr> <td>FE</td><td>30</td><td>D7</td><td>AF</td></tr> </table>	FE	72	2B	D7	77	A4	6B	6B	F0	63	AD	01	FE	30	D7	AF
FE	72	2B	D7														
77	A4	6B	6B														
F0	63	AD	01														
FE	30	D7	AF														
((OPTION_D))  This is optional	<table border="1"> <tr> <td>D7</td><td>FE</td><td>72</td><td>2B</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>01</td><td>AD</td><td>63</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	D7	FE	72	2B	A4	6B	6B	77	01	AD	63	F0	30	D7	AF	FE
D7	FE	72	2B														
A4	6B	6B	77														
01	AD	63	F0														
30	D7	AF	FE														

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The Shift Rows transformation consists of: -Not shifting the first row of the state array at all. -Circularly shifting the second row by one byte to the left. -Circularly shifting the third row by two bytes to the left, and -Circularly shifting the last row by three bytes to the left.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not weak key in DES
((OPTION_A)) THIS IS MANDATORY OPTION	0x0101010101010101
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0xEFABFEFEFEFEFEFE
((OPTION_C)) This is optional	0x1F1F1F1F0E0E0E0E
((OPTION_D))	0xFFFFFFFFFFFFFF

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple-DES has _____ keys.
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	2
((OPTION_C)) This is optional	5
((OPTION_D))	4

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a encryption technique which uses two instance of DES on same plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	Double DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripple DES
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack which can be used to break through double DES.
((OPTION_A)) THIS IS MANDATORY OPTION	Brute force
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	meet-in-the middle
((OPTION_C)) This is optional	Timing
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple DES involve __
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption, Decryption, Decryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption ,Encryption, Encryption
((OPTION_C)) This is optional	Decryption ,Encryption, Decryption
((OPTION_D))	Encryption, Decryption, Encryption

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ involves feeding the successive output blocks from the underlying block cipher back to it
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	OFB
((OPTION_D))	CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is counter-based version of CFB mode without the feedback
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	counter
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below mode is independent of previous output
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	CFB
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Errors get propagated in all modes except ___and ___
((OPTION_A)) THIS IS MANDATORY OPTION	ECB,COUNTER
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC,COUNTER
((OPTION_C)) This is optional	CFB,COUNTER
((OPTION_D))	OFB,CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Patterns are not preserved in ___ mode
((OPTION_A)) THIS IS MANDATORY OPTION	CBC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CFB
((OPTION_C)) This is optional	Both CBC and CFB
((OPTION_D))	ECB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A small change in plaintext results in the very great change in the cipher text indicates which characteristic
((OPTION_A)) THIS IS MANDATORY OPTION	completeness
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Strong key
((OPTION_C)) This is optional	Avalanche effect
((OPTION_D))	All of the above

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ ciphers, the plaintext is processed one bit at a time i.e. one bit of plaintext is taken, and a series of operations is performed on it to generate one bit of cipher text.
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	More number of _____ provide more secure system in feistel cipher.
((OPTION_A)) THIS IS MANDATORY OPTION	rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	keys
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	Function
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The number of rounds used in a Feistel Cipher depends on desired security from the system. More number of rounds provide more secure system. But at the same time, more rounds mean the inefficient slow encryption and decryption processes..

1.	<p>Asymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?</p> <ol style="list-style-type: none"> <li>1. Not true, the message can also be decrypted with the Public Key.</li> <li>1. 2. A so called "one way function with back door" is applied for the encryption.</li> <li>2. The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.</li> <li>3. 4. The encrypted message contains the function for decryption which identifies the Private Key.</li> </ol>	2
2.	<p>In which way does the Combined Encryption combine symmetric and asymmetric encryption?</p> <ol style="list-style-type: none"> <li>1. First, the message is encrypted with symmetric encryption and afterwards it is encrypted asymmetrically together with the key.</li> <li>2. The secret key is symmetrically transmitted, the message itself asymmetrically.</li> <li>3. First, the message is encrypted with asymmetric encryption and afterwards it is encrypted symmetrically together with the key.</li> <li>4. The secret key is asymmetrically transmitted, the message itself symmetrically.</li> </ol>	4
3.	<p>Which is the largest disadvantage of the symmetric Encryption?</p> <ol style="list-style-type: none"> <li>1. More complex and therefore more time-consuming calculations.</li> <li>2. Problem of the secure transmission of the Secret Key.</li> <li>3. Less secure encryption function.</li> <li>4. Isn't used any more.</li> </ol>	2
4.	<p>Which is the principle of the encryption using a key?</p> <ol style="list-style-type: none"> <li>1. The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.</li> <li>2. The key contains the secret function for encryption including parameters. Only a password can activate the key.</li> <li>3. All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.</li> <li>4. The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.</li> </ol>	3
5.	<p>A substitution cipher substitutes one symbol with</p> <ol style="list-style-type: none"> <li>1. Keys</li> <li>2. Others</li> <li>3. Multi Parties</li> <li>4. Single Party</li> </ol>	2

6.	An asymmetric-key (or public-key) cipher uses  1. 1 Key 2. 2 Key 3. 3 Key 4. 4 Key	2
7.	A straight permutation cipher or a straight P-box has the same number of inputs as  1. cipher 2. Frames 3. Outputs 4. Bits	3
8.	We use Cryptography term to transforming messages to make them secure and immune to  1. Change 2. Idle 3. Attacks 4. Defend	3
9.	The man-in-the-middle attack can endanger the security of the Diffie-Hellman method if two parties are not  1. Authenticated 2. Joined 3. Submit 4. Separate	1
10.	The cryptography algorithms (ciphers) are divided into  1. two groups 2. four groups 3. one single group 4. None	1
11.	The shift cipheris sometimes referred to as the  1. Caesar cipher 2. Julia cipher 3. plain cipher 4. All of them	1

12.	<p>One commonly used public-key cryptography method is the _____ algorithm.</p> <ol style="list-style-type: none"> <li>1. RSS</li> <li>2. RAS</li> <li>3. RSA</li> <li>4. RAA</li> </ol>	3
13.	<p>A(n) _____ algorithm transforms cipher text to plaintext.</p> <ol style="list-style-type: none"> <li>1. encryption</li> <li>2. decryption</li> <li>3. either (a) or (b)</li> <li>4. neither (a) nor (b)</li> </ol>	2
14.	<p>The _____ method provides a one-time session key for two parties.</p> <ol style="list-style-type: none"> <li>1. Diffie-Hellman</li> <li>2. RSA</li> <li>3. DES</li> <li>4. AES</li> </ol>	1
15.	<p>A(n) _____ is a keyless substitution cipher with N inputs and M outputs that uses a formula to define the relationship between the input stream and the output stream.</p> <ol style="list-style-type: none"> <li>1. S-box</li> <li>2. P-box</li> <li>3. T-box</li> <li>4. none of the above</li> </ol>	1
16.	<p>A _____ cipher replaces one character with another character.</p> <ol style="list-style-type: none"> <li>1. substitution</li> <li>2. transposition</li> <li>3. either (a) or (b)</li> <li>4. neither (a) nor (b)</li> </ol>	1
17.	<p>The _____ cipher reorders the plaintext characters to create a ciphertext.</p> <ol style="list-style-type: none"> <li>1. substitution</li> <li>2. transposition</li> <li>3. either (a) or (b)</li> <li>4. neither (a) nor (b)</li> </ol>	2

18.	<p>_____ is a round cipher based on the Rijndael algorithm that uses a 128-bit block of data.</p> <ol style="list-style-type: none"> <li>1. AEE</li> <li>2. AED</li> <li>3. AER</li> <li>4. AES</li> </ol>	4
19.	<p>The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.</p> <ol style="list-style-type: none"> <li>1. man-in-the-middle</li> <li>2. ciphertext attack</li> <li>3. plaintext attack</li> <li>4. none of the above</li> </ol>	1
20.	<p>A combination of an encryption algorithm and a decryption algorithm is called a _____.</p> <ol style="list-style-type: none"> <li>1. cipher</li> <li>2. secret</li> <li>3. key</li> <li>4. none of the above</li> </ol>	1
21.	<p>AES has _____ different configurations.</p> <ol style="list-style-type: none"> <li>1. two</li> <li>2. three</li> <li>3. four</li> <li>4. five</li> </ol>	3
22.	<p>DES is a(n) _____ method adopted by the U.S. government.</p> <ol style="list-style-type: none"> <li>1. symmetric-key</li> <li>2. asymmetric-key</li> <li>3. either (a) or (b)</li> <li>4. neither (a) nor (b)</li> </ol>	1
23.	<p>DES uses a key generator to generate sixteen _____ round keys.</p> <p>A) 32-bit</p> <p>B) 48-bit</p> <p>C) 54-bit</p> <p>D) 42-bit</p>	2

24.	The Caesar cipher is a _____ cipher that has a key of 3.  1. transposition 2. additive 3. shift 4. none of the above	3
25.	ECB and CBC are _____ ciphers.  1. block 2. stream 3. field 4. none of the above	1
26.	A(n) _____ is a keyless transposition cipher with N inputs and M outputs that uses a table to define the relationship between the input stream and the output stream.  1. S-box 2. P-box 3. T-box 4. none of the above	2
27.	_____ DES was designed to increase the size of the DES key.  1. Double 2. Triple 3. Quadruple 4. none of the above	2
28.	DES has an initial and final permutation block and _____ rounds.  1. 14 2. 15 3. 16 4. none of the above	3
29.	The DES function has _____ components.  A) 2 B) 3 C) 4 D) 5	3

30.	In a(n) _____ cipher, the same key is used by both the sender and receiver.  1. symmetric-key 2. asymmetric-key 3. either (a) or (b) 4. neither (a) nor (b)	1
31.	The _____ cipher is the simplest monoalphabetic cipher. It uses modular arithmetic with a modulus of 26.  1. transposition 2. additive 3. shift 4. none of the above	3
32.	In a(n) _____, the key is called the secret key.  1. symmetric-key 2. asymmetric-key 3. either (a) or (b) 4. neither (a) nor (b)	1
33.	RSA stands for:  1. Rivest Shamirand Adleman 2. Rock Shane and Amozen 3. Rivest Shane and Amozen 4. Rock Shamir and Adleman	1
34.	The S-Box is used to provide confusion, as it is dependent on the unknown key. 1. True 2. False	1
35.	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits. 1. True 2. False	2
36.	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits. 1. 48, 32 2. 64,32 3. 56, 24 4. 32, 32	1

37.	<p>In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____</p> <ol style="list-style-type: none"> <li>1. Scaling of the existing bits</li> <li>2. Duplication of the existing bits</li> <li>3. Addition of zeros</li> <li>4. Addition of ones</li> </ol>	1
38.	<p>The Initial Permutation table/matrix is of size</p> <ol style="list-style-type: none"> <li>1. <math>16 \times 8</math></li> <li>2. <math>12 \times 8</math></li> <li>3. <math>8 \times 8</math></li> <li>4. <math>4 \times 8</math></li> </ol>	3
39.	<p>In the DES algorithm the 64 bit key input is shortened to 56 bits by ignoring every 4th bit.</p> <ol style="list-style-type: none"> <li>1. True</li> <li>2. False</li> </ol>	2
40.	<p>AES uses a _____ bit block size and a key size of _____ bits.</p> <ol style="list-style-type: none"> <li>1. 128; 128 or 256</li> <li>2. 64; 128 or 192</li> <li>3. 256; 128, 192, or 256</li> <li>4. 128; 128, 192, or 256</li> </ol>	4
41.	<p>SHA-1 produces a hash value of</p> <ol style="list-style-type: none"> <li>1. 256 bits</li> <li>2. 160 bits</li> <li>3. 180 bits</li> <li>4. 128 bits</li> </ol>	2
42.	<p>The big-endian format is one in which</p> <ol style="list-style-type: none"> <li>1. the least significant byte is stored in the low-address byte position</li> <li>2. the least significant byte is stored in the high-address byte position</li> <li>3. the most significant byte is stored in the high-address byte position</li> <li>4. the most significant byte is stored in the low-address byte position</li> </ol>	4
43.	<p>Caesar Cipher is an example of</p> <ol style="list-style-type: none"> <li>1 Poly-alphabetic Cipher</li> <li>2 Mono-alphabetic Cipher</li> <li>3 Multi-alphabetic Cipher</li> <li>4 Bi-alphabetic Cipher</li> </ol>	2

44.	<p>DES using 56 bits</p> <ol style="list-style-type: none"> <li>1. Cannot be broken in given time using presently available computers.</li> <li>2. Can be broken only if algorithm is known using even slow computers.</li> <li>3. Can be broken by presently available high speed computers.</li> <li>4. It is impossible to break.</li> </ol>	3
45.	<p>Triple DES</p> <ol style="list-style-type: none"> <li>1. Cannot be broken in given time using presently available computers.</li> <li>2. Can be broken only if algorithm is known using even slow computers.</li> <li>3. Can be broken by presently available high speed computers.</li> <li>4. It is impossible to break.</li> </ol>	1
46.	<p>The Acronym DES stands for</p> <ol style="list-style-type: none"> <li>1. Digital Evaluation System.</li> <li>2. Digital Encryption System.</li> <li>3. Digital Encryption Standard.</li> <li>4. Double Encryption System.</li> </ol>	2
47.	<p>The Acronym AES stands for</p> <ol style="list-style-type: none"> <li>1. Advanced Encryption Standard</li> <li>2. Advanced Encryption System.</li> <li>3. Advanced Evaluation System.</li> <li>4. Advanced Evaluation Standard</li> </ol>	1
48.	<p>Triple DES</p> <ol style="list-style-type: none"> <li>1. Is a Symmetric Key Encryption method.</li> <li>2. Guarantees Excellent Security</li> <li>3. Is implementable as hardware VLSI chip.</li> <li>4. Is a public key encryption method</li> </ol>	2



# ICS UNIT 3

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem _____ keys are used for encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different
((OPTION_C)) This is optional	Encryption Keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	In conventional cryptosystem, same keys are used for encryption and decryption where as in public key cryptosystem different keys are used.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem which is kept as public?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption keys
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption keys
((OPTION_C)) This is optional	Encryption & Decryption keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	In public key cryptosystem, the encryption keys are kept as public where as decryption keys are kept as secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptosystem uses same key for both encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which should be kept as a secret in public key cryptosystem?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption key
((OPTION_C)) This is optional	Encryption & Decryption key
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	In public key cryptosystem, Encryption is done using public key . decryption key needs to be kept as a secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Euler's totient function is determined by
((OPTION_A)) THIS IS MANDATORY OPTION	$pq$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(p-1)(q-1)$
((OPTION_C)) This is optional	$(p+1)(q+1)$
((OPTION_D)) This is optional	$p/q$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The Euler's totient function is determined by $(p-1)(q-1)$ , where p and q are kept hidden.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'?
((OPTION_A))  THIS IS MANDATORY OPTION	p and q should be divisible by $\Phi(n)$
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	p and q should be co-prime
((OPTION_C))  This is optional	p and q should be prime
((OPTION_D))  This is optional	p/q should give no remainder
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	'p' and 'q' should have large random values which are both prime numbers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.
((OPTION_A)) THIS IS MANDATORY OPTION	(p)/(q)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	(p)(q)
((OPTION_C)) This is optional	(p-1)(q-1)
((OPTION_D)) This is optional	(p+1)(q+1)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$\Phi(n) = (p-1)(q-1).$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	$\gcd(e, \Phi(n))=1$ ; and $1 < e < \Phi(n)$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $e=17$ . Apply RSA algorithm where message=5 and find the cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	C=80
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	C=92
((OPTION_C)) This is optional	C=56
((OPTION_D)) This is optional	C=23
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 209.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	54
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	43
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	24
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$n = pq = 11 \times 19 = 209$ . $C=M^e \text{ mod } n ; C=5^{17} \text{ mod } 209 ; C = 80 \text{ mod } 209$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	$n = 35; e = 5; C = 10$ . What is the plaintext (use RSA) ?
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	7
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Use RSA system to decrypt and get PT = 5.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where PT message=88 and thus find the CT.
((OPTION_A)) THIS IS MANDATORY OPTION	23
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64
((OPTION_C)) This is optional	11
((OPTION_D)) This is optional	54
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=88^7 \text{ mod } 187 ; C = 11 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where Cipher message=11 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	88
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	122
((OPTION_C)) This is optional	143
((OPTION_D)) This is optional	111
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=11^{23} \text{ mod } 187 ; C = 88 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an RSA system the public key of a given user is $e = 31$ , $n = 3599$ . What is the private key of this user?
((OPTION_A)) THIS IS MANDATORY OPTION	3031
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	2412
((OPTION_C)) This is optional	2432
((OPTION_D)) This is optional	1023
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	By trial and error, we determine that $p = 59$ and $q = 61$ . Hence $f(n) = 58 \times 60 = 3480$ . Then, using the extended Euclidean algorithm, we find that the multiplicative inverse of 31 modulo $f(n)$ is 3031

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compute private key (d, p, q) given public key (e=23, n=233 ´ 241=56,153).
((OPTION_A)) THIS IS MANDATORY OPTION	35212
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	12543
((OPTION_C)) This is optional	19367
((OPTION_D)) This is optional	32432
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Since n=233 ´ 241=56,153, p=233 and q=241 $f(n) = (p - 1)(q - 1) = 55,680$ Using Extended Euclidean algorithm, we obtain $d = 23^{-1} \text{ mod } 55680 = 19,367.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a RSA cryptosystem a particular A uses two prime numbers $p = 13$ and $q = 17$ to generate her public and private keys. If the public key of A is 35. Then the private key of A is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	13
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	17
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In an RSA cryptosystem, for public key: $\text{GCD}(\phi(n), e) = 1$ And, for private key:

	$(e * d) \bmod \phi(n) = 1$ Where, $\phi(n) = (p - 1)*(q - 1) = (13 - 1)(17 - 1) = 12 * 16 = 192$ Such that $1 < e, d < \phi(n)$ Therefore, the private key is: $(35 * d) \bmod \phi(n) = 1$ $d = 11$
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA public key cryptosystem, which one of the following numbers will always be largest?
((OPTION_A)) THIS IS MANDATORY OPTION	E
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	N
((OPTION_C)) This is optional	P
((OPTION_D)) This is optional	Q
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The number n is generated as the product of the two large prime numbers p and q. Therefore, n must always be greater than both p and q. Furthermore, it is an algorithm constraint that e must be chosen such that e is smaller than n. Therefore, in RSA cryptography n is always the largest of the four variables shown in the options to this question.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If Richard wants to send an encrypted message to Sue using a public key cryptosystem, which key does he use to encrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Richard must encrypt the message using Sue's public key so that Sue can decrypt it using her private key. If he encrypted the message with his own public key, the recipient would need to know Richard's private key to decrypt the message. If he encrypted it with his own private key, any user could decrypt the message using Richard's freely available public key. Richard could not encrypt the message using Sue's private key because he does not have access to it. If he did, any user could decrypt it using Sue's freely available public key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Acme Widgets currently uses a 1,024-bit RSA encryption standard companywide. The company plans to convert from RSA to an elliptic curve cryptosystem. If it wishes to maintain the same cryptographic strength, what ECC key length should it use?
((OPTION_A)) THIS IS MANDATORY OPTION	160 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	512 bits
((OPTION_C)) This is optional	1,024 bits
((OPTION_D)) This is optional	2,048 bits

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The elliptic curve cryptosystem requires significantly shorter keys to achieve encryption that would be the same strength as encryption achieved with the RSA encryption algorithm. A 1,024-bit RSA key is cryptographically equivalent to a 160-bit elliptic curve cryptosystem key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Richard received an encrypted message sent to him from Sue. Which key should he use to decrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sue would have encrypted the message using Richard's public key. Therefore, Richard needs to use the complementary key in the key pair, his private key, to decrypt the message.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One commonly used public-key cryptography method is the _____ algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the objective of Diffie-Hellman key exchange?
((OPTION_A)) THIS IS MANDATORY OPTION	To protect encrypted data from man-in-the-middle attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	To perform mutual authentication on both sides
((OPTION_C)) This is optional	To prove to another party that one holds a secret key without revealing it
((OPTION_D)) This is optional	To establish a shared secret key on both sides

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The security of RSA encryption relies on which assumption?
((OPTION_A)) THIS IS MANDATORY OPTION	It is computationally infeasible to compute a GCD of two large numbers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is computationally infeasible to factor a large number.
((OPTION_C)) This is optional	It is computationally infeasible to test whether a large number is prime.
((OPTION_D)) This is optional	It is computationally infeasible to compute a square modulo n.

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is asymmetric cryptography?
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	Both ECC and RSA
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below requires less hardware capacity because of less key size
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Diffie Hellman is _____
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption algorithm
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	D-H is key exchange algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Timing attack on RSA can be avoided by __
((OPTION_A)) THIS IS MANDATORY OPTION	Padding extra bits in message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Adding delays
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below algorithm is used in cryptocurrency?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AES
((OPTION_C)) This is optional	ECC
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When a hash function is used to provide message authentication, the hash function value is called to as:
((OPTION_A)) THIS IS MANDATORY OPTION	Message Field
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Message Digest
((OPTION_C)) This is optional	Message Score
((OPTION_D)) This is optional	Message Leap

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	We know that the hash function providing message authentication is referred to as message digest in cryptography.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following are used to create a message digest  a. RSA b. SHA-1 c. DES d. MD5
((OPTION_A)) THIS IS MANDATORY OPTION	A&B
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	B&C
((OPTION_C)) This is optional	A&C

((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	They are Message digest algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the output of a cryptographic hash function?
((OPTION_A)) THIS IS MANDATORY OPTION	A variable set of bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A fixed set of bits, derived from one-way mathematical operations
((OPTION_C)) This is optional	An output which may be easily discovered by an adversary

((OPTION_D)) This is optional	Outputs of such functions are of no importance
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest algorithms are primarily used to provide _____
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	inegrity

((OPTION_D)) This is optional	authorization
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a message digest algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IDEA
((OPTION_C)) This is optional	MD5

((OPTION_D)) This is optional	RSA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the data must arrive at the receiver exactly as sent.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the receiver is ensured that the message is coming from the intended sender, not an imposter.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ function creates a message digest out of a message
((OPTION_A)) THIS IS MANDATORY OPTION	encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	hash

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a trusted third party that assigns a symmetric key to two parties.
((OPTION_A)) THIS IS MANDATORY OPTION	Public directory
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Certificate authority
((OPTION_C)) This is optional	Both

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature provides _____.
((OPTION_A)) THIS IS MANDATORY OPTION	authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nonrepudiation
((OPTION_C)) This is optional	both (a) and (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature needs a(n) _____ system
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a federal or state organization that binds a public key to an entity and issues a certificate.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	means that a sender must not be able to deny sending a message that he sent.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication

((OPTION_D)) This is optional	Nonrepudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a popular session key creator protocol that requires an authentication server and a ticket-granting server.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The MD5 is a message digest algorithm developed by
((OPTION_A)) THIS IS MANDATORY OPTION	Ron Rivest.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	WhiteField Diffie.
((OPTION_C)) This is optional	Martin Hellman.

((OPTION_D)) This is optional	Diffie-Hellman.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 is quite fast and produces _____ message digests
((OPTION_A)) THIS IS MANDATORY OPTION	512 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1024 bits
((OPTION_C)) This is optional	128 bits

((OPTION_D)) This is optional	64 bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The first step of MD5 is
((OPTION_A)) THIS IS MANDATORY OPTION	add padding bits to original messsge
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	adding append length bits
((OPTION_C)) This is optional	divide the input into 512 bit blocks

((OPTION_D)) This is optional	compression
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the process block divides the 512 bits into _____ sub blocks.
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	24
((OPTION_C)) This is optional	32

((OPTION_D)) This is optional	84
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which financial institutions have a relationship with merchants for processing payment card authorizations and payments?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Acquirer
((OPTION_C)) This is optional	Merchant

((OPTION_D)) This is optional	Dealer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following contains the order information such as which items are being purchased?
((OPTION_A)) THIS IS MANDATORY OPTION	PI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	OI
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Payment information can be encrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	customer's private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	merchant public key
((OPTION_C)) This is optional	one-time session key.

((OPTION_D)) This is optional	customer's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature envelope is decrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	merchant private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	payment's private key
((OPTION_C)) This is optional	payment public key

((OPTION_D)) This is optional	merchant's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ will ensure the merchant and their payment information
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Dual signature

((OPTION_D)) This is optional	Certificate authority
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SET provides an authentication with the help of _____
((OPTION_A)) THIS IS MANDATORY OPTION	dual signature
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	digital certificate
((OPTION_C)) This is optional	payment's public key

((OPTION_D)) This is optional	payment's private key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are very crucial for success of RSA algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	Integers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Prime numbers
((OPTION_C)) This is optional	Negative number

((OPTION_D)) This is optional	Fraction
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ acts as financial institutions who provides a payment card to a card holder
((OPTION_A)) THIS IS MANDATORY OPTION	payment gateway
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	card holder
((OPTION_C)) This is optional	acquirer

((OPTION_D)) This is optional	issuer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	ISSUER means Bank

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who will be responsible for processing the payment from the customer's account to the merchant account?
((OPTION_A)) THIS IS MANDATORY OPTION	Acquirer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Issuer

((OPTION_D)) This is optional	Payment gateway
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cardholder combines the PIMD and OIMD and hashes them together to form
((OPTION_A)) THIS IS MANDATORY OPTION	OPMD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POMD
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which process will ensure that the issues of the credit card is an approved transactions?
((OPTION_A)) THIS IS MANDATORY OPTION	Payment capture
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Payment authorization
((OPTION_C)) This is optional	Purchase request

((OPTION_D)) This is optional	Purchase reply
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is used for hiding the payment information from the merchant.
((OPTION_A)) THIS IS MANDATORY OPTION	SET
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	SHTTP

((OPTION_D)) This is optional	TSP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A __word buffer is used to compute the message digest in MD5
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5

((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	4 WORD A,B,C,D

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the message is <b>padded</b> so that its length is divisible by ____
((OPTION_A)) THIS IS MANDATORY OPTION	32
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	128
((OPTION_C)) This is optional	512

((OPTION_D)) This is optional	1024
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 should meet requirements:
((OPTION_A)) THIS IS MANDATORY OPTION	It is impossible to generate two inputs that cannot produce the same hash function
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is impossible to generate a message having the same hash value
((OPTION_C)) This is optional	Both of the above

((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 takes an input of ___ size and produces an output if a 128-bit hash value
((OPTION_A)) THIS IS MANDATORY OPTION	Any
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Multiple of 512
((OPTION_C)) This is optional	Multiple of 128

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following best describes sniffing?
((OPTION_A)) THIS IS MANDATORY OPTION	Gathering packets to locate IP addresses, in order to initiate a session hijacking attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Analyzing packets in order to locate the sequence number to start a session hijack
((OPTION_C)) This is optional	Monitoring TCP sessions in order to initiate a session-hijacking attack

((OPTION_D)) This is optional	Locating a host susceptible to a session-hijack attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sniffing is usually used to locate the sequence number, which is necessary for a session hijack.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The secret key between members needs to be created as a _____ key when two members contact Kerberos system
((OPTION_A)) THIS IS MANDATORY OPTION	Public
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session
((OPTION_C))	complimentary

This is optional	
((OPTION_D))	None of these
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main components of Kerberos are:
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	database

This is optional	
((OPTION_D))	All of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ performs the initial authentication and ticket for Ticket Granting Service
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	Database

This is optional	
((OPTION_D))	Kerberos
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Authentication Server verifies access right of users in __
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TG server
((OPTION_C))	Database

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ issues the ticket for the Server
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	DB

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is primarily used for _____
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))	confidentiality

This is optional	
((OPTION_D))	authorization
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The KDC encrypts the TGT with a password that only the _____ knows.
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	Server

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Because no one else needs to be able to see the contents.  It's for the server to keep track of the client

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The essence of Kerberos' system is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	One way authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity

((OPTION_C)) This is optional	Mutual authentication
((OPTION_D)) This is optional	Public authentication
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not an element/field of the X.509 certificates?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer Name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Serial Modifier

((OPTION_C)) This is optional	Issuer unique Identifier
((OPTION_D)) This is optional	Signature
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 certificate recommends which cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	DES

((OPTION_C)) This is optional	AES
((OPTION_D)) This is optional	Rabin
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The standard used in digital certificates that defines its structure, fields, and Values is
((OPTION_A)) THIS IS MANDATORY OPTION	Kerberos
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	End to end encryption

((OPTION_C)) This is optional	X.509
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 Certificates includes
((OPTION_A)) THIS IS MANDATORY OPTION	Version
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	signature algorithm identifier

((OPTION_C)) This is optional	period of validity
((OPTION_D)) This is optional	extension fields
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CHOICE)) Either A or B or C or D or E	E
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ defines a framework for the provision of authentication services by the X.500 directory
((OPTION_A)) THIS IS MANDATORY OPTION	X.509
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.508

((OPTION_C)) This is optional	X.505
((OPTION_D)) This is optional	X.609
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature is a mathematical technique used to validate the _____ and _____ of a message, software or digital document
((OPTION_A)) THIS IS MANDATORY OPTION	Authenticity, integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity, confidentiality

((OPTION_C)) This is optional	Integrity,non-repudiation
((OPTION_D)) This is optional	Authenticity,confidentiality
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature involves ____ and ____
((OPTION_A)) THIS IS MANDATORY OPTION	Signature verification ,validation
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Signature creation,verification

((OPTION_C)) This is optional	Signature creation,deletion
((OPTION_D)) This is optional	Signature validation,modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest is computed by applying hash function on the message and then message digest is encrypted using _____ key of sender to form the digital signature.
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Session
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature , Receiver decrypts the digital signature using the _____ key of sender
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Secret
((OPTION_D)) This is optional	Session
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature, The message digest computed by ___ and the message digest (got by decryption on digital signature) need to be ___ for ensuring integrity
((OPTION_A)) THIS IS MANDATORY OPTION	Receiver,same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Receiver,different

((OPTION_C)) This is optional	Sender,same
((OPTION_D)) This is optional	Sender,different
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is like a fingerprint or an attachment to a digital document that ensures its authenticity and integrity.
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Digital signature

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature follows _____
((OPTION_A)) THIS IS MANDATORY OPTION	Digital Signature Standard (DSS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.509 standard format

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In diffie-hellman algorithm, if Alice and Bob wish to communicate with each other, they first agree between them a large prime number n, and ____ g
((OPTION_A)) THIS IS MANDATORY OPTION	Generator
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Small prime number

((OPTION_C)) This is optional	Natural number
((OPTION_D)) This is optional	Factorial
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm if $X_a$ is private key of user then public key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$g^{X_a} \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$n^{X_a} \text{ mod } n$

((OPTION_C)) This is optional	$g^n \bmod p$
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, ____ keys of each other should be known
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session

((OPTION_C)) This is optional	Public
((OPTION_D)) This is optional	No
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm,shared secret key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$(g^a \text{ mod } n)^b \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(g^b \text{ mod } n)^a \text{ mod } n$

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, the resulting shared secret will be the ___ every time
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different

((OPTION_C)) This is optional	Maybe same
((OPTION_D)) This is optional	Can't say
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ the first widely used method of safely developing and exchanging keys over an insecure channel
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSS

((OPTION_C)) This is optional	Diffie Hellman
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suppose that two parties A and B wish to set up a common secret key (D-H key) between themselves using the Diffie Hellman key exchange technique. They agree on 7 as the modulus and 3 as the primitive root. Party A chooses 2 and party B chooses 5 as their respective secrets. Their D-H key is
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4

((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prime value $q = 17$ and primitive root $= 5$ . If Alice's secret key is 4 and Bob's secret key is 6, what is the shared secret key they exchanged?
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	17

((OPTION_C)) This is optional	18
((OPTION_D)) This is optional	19
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each round of MD5 consist of ____ operations
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15

((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	18
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each buffer of MD5 algorithm is ____ bit long
((OPTION_A))  THIS IS MANDATORY OPTION	32
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	64

((OPTION_C)) This is optional	128
((OPTION_D)) This is optional	512
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	RSA is _____ cryptography
((OPTION_A)) THIS IS MANDATORY OPTION	Asymmetric
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Value generated by hash function is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Message digest
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hash

((OPTION_C)) This is optional	MAC
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not service of digital signature
((OPTION_A))  THIS IS MANDATORY OPTION	Authentication to message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data integrity

((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ digitally signs this entire information and includes digital signature in the certificate
((OPTION_A)) THIS IS MANDATORY OPTION	CA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	KDC

((OPTION_C)) This is optional	PKI
((OPTION_D)) This is optional	DB
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA ,e is used as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Euler's totient
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, d is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key
((OPTION_C)) This is optional	Totient function
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

# ICS UNIT 4

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Collection of protocol designed by IETF
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Operation in Tunnel mode
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects information in
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec in which mode does not protect IP header
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which mode is used when we need host to host protection
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects the whole IP packets
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec defines two protocol
((OPTION_A)) THIS IS MANDATORY OPTION	AH, SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP, ASP
((OPTION_C)) This is optional	AH, ESP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Authentication at the IP header
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES AUTHENTICATION OR ENCRYPTION OR BOTH FOR PACKET AT IP LEVEL
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ESP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSEC USES A SET OF SA CALLED
((OPTION_A)) THIS IS MANDATORY OPTION	SAD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SAB
((OPTION_C)) This is optional	SADB
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol to provide security for inbound and outbound
((OPTION_A)) THIS IS MANDATORY OPTION	SA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CA
((OPTION_C)) This is optional	KDC
((OPTION_D)) This is optional	IKE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE creates SA for
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP
((OPTION_C)) This is optional	IPSec
((OPTION_D)) This is optional	VP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE based on other how many protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Two
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Three
((OPTION_C)) This is optional	Four
((OPTION_D)) This is optional	five
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE uses
((OPTION_A)) THIS IS MANDATORY OPTION	OAKLEY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SKEME
((OPTION_C)) This is optional	ISKAMP
((OPTION_D)) This is optional	ALL ABOVE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network is used in an organization
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Semi private
((OPTION_D)) This is optional	Semi publik
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Private network that uses an internet model
((OPTION_A)) THIS IS MANDATORY OPTION	intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a network that allows authorized access from outside
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Internet authorities have reserved address for
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is provides privacy for LAN
((OPTION_A)) THIS IS MANDATORY OPTION	VPP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	VNP
((OPTION_C)) This is optional	VNN
((OPTION_D)) This is optional	VPN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES END TO END SECURITY FOR APPLICATION
((OPTION_A)) THIS IS MANDATORY OPTION	DATA LINK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NETWORK
((OPTION_C)) This is optional	TRANSPORT
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is actually an IETF version on
((OPTION_A)) THIS IS MANDATORY OPTION	TLS, TSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL. TLS
((OPTION_C)) This is optional	TLS, SSL
((OPTION_D)) This is optional	SSL,SLT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security at the transport layer
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To provide security and compression
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Can receive application data from any application layer protocol
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSL provides
((OPTION_A)) THIS IS MANDATORY OPTION	Integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Compression
((OPTION_D)) This is optional	All above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSI session
((OPTION_A)) THIS IS MANDATORY OPTION	List of protocol
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher suit
((OPTION_C)) This is optional	List of keys
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cryptographic algorithem and secrets are sent with the message IN
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	TLS
((OPTION_D)) This is optional	PGP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security protocol for email security is
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Was invented by Phil Zimmerman
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security, integration, authentication in email
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Method to transfer secure message
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cryptoanalysis
((OPTION_C)) This is optional	both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the original message before transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the message after transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms plaintext to ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms cipher text to plain text
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A combination of encryption and decryption algorithm is called
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher operates on
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The same key used by both the sender and receiver
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The key is called as secret key
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A pair of keys used in
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the sender uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the receiver uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A cipher replaces one character with another
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic and polyalphabetic cipher are
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The simplest monoalphabetic cipher is
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Ceasar cipher that has key of 3
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cipher reorders the plain text to create the ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless substitution To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless transposition To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher made of a combination of different simple cipher
((OPTION_A)) THIS IS MANDATORY OPTION	Round
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Circle
((OPTION_C)) This is optional	Square
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is an method
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES has an Round
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES functions has componenets
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES uses a key generaterto generater to generate sixteen ---round key
((OPTION_A)) THIS IS MANDATORY OPTION	32 bit
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	48 bit
((OPTION_C)) This is optional	54 bit
((OPTION_D)) This is optional	42 bit
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES was designed to increase the size of DES key
((OPTION_A)) THIS IS MANDATORY OPTION	Double
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripal
((OPTION_C)) This is optional	Quadrupal
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Algorithm uses a 128 bit block of data
((OPTION_A)) THIS IS MANDATORY OPTION	AEE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AED
((OPTION_C)) This is optional	AER
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES has how many different combinations
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are ciphers
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Field
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptographic algorithm is
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	AC
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	it provides a one time session key for two parties
((OPTION_A)) THIS IS MANDATORY OPTION	Diffie hellman
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is an abbreviation of
((OPTION_A)) THIS IS MANDATORY OPTION	Terminal network
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Telephone network
((OPTION_C)) This is optional	Telecommunication network
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is a client server application program for
((OPTION_A)) THIS IS MANDATORY OPTION	Specific purpose
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	General purpose
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Users logs in to local time sharing system is called
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To access remote machine need a login
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	NVT uses two set of character
((OPTION_A)) THIS IS MANDATORY OPTION	Sending, receiving
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Request, reply
((OPTION_C)) This is optional	Data, control
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The server uses -----port
((OPTION_A)) THIS IS MANDATORY OPTION	Wellknown
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Emperor
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To distinguish data from characters
((OPTION_A)) THIS IS MANDATORY OPTION	ICA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IAC
((OPTION_C)) This is optional	AIC
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	the echoing is done by the client in the mode
((OPTION_A)) THIS IS MANDATORY OPTION	Default
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Character
((OPTION_C)) This is optional	Line
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP uses a service of
((OPTION_A)) THIS IS MANDATORY OPTION	UDP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IP
((OPTION_C)) This is optional	TCP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP control and data connection are
((OPTION_A))  THIS IS MANDATORY OPTION	21, 22
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	20,21
((OPTION_C))  This is optional	21,20
((OPTION_D))  This is optional	none
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP is the service type used by IP protocol because
((OPTION_A)) THIS IS MANDATORY OPTION	Maximise throughput
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Minimize delay
((OPTION_C)) This is optional	Minimize error
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For control connection FTP use a character set of
((OPTION_A)) THIS IS MANDATORY OPTION	Regular ASCII
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EBCDIC
((OPTION_C)) This is optional	NVT ASCII
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP files are types of an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structures
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP there are three types of -----,stream, blocked and compression
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structurs
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP and image defines an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File type
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structure
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the server to client
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Retrieve a list
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the client to server
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Store a file
((OPTION_C)) This is optional	Retrieve a lise
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a part of a local hard drive, a special file with permission restriction
((OPTION_A)) THIS IS MANDATORY OPTION	A message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A response
((OPTION_C)) This is optional	An agent
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and the receiver on the same system we need
((OPTION_A)) THIS IS MANDATORY OPTION	One UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	One UA and one MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are on the different system, we need
((OPTION_A)) THIS IS MANDATORY OPTION	One MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	Two UA and one pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender is connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pairs of MTA
((OPTION_C)) This is optional	Two UA and a pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two UA, two pair of MTA, a pair of MAA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pair of MTA
((OPTION_C)) This is optional	Two UA, two pair of MTA, two pair of MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It provides a service to the user to make the process of sending and receiving message
((OPTION_A)) THIS IS MANDATORY OPTION	MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAA
((OPTION_C)) This is optional	UA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following services is not provided by UA
((OPTION_A))  THIS IS MANDATORY OPTION	Composing message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Reading message
((OPTION_C))  This is optional	Reply message
((OPTION_D))  This is optional	ALL are
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There are two types of user agents
((OPTION_A)) THIS IS MANDATORY OPTION	Command driven, data driven
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Command driven, GUI based
((OPTION_C)) This is optional	Command based and data based
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It contains the sender address, receiver address and other information
((OPTION_A)) THIS IS MANDATORY OPTION	Message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Envelop
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The message contains
((OPTION_A)) THIS IS MANDATORY OPTION	Header, envelop
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Header, body
((OPTION_C)) This is optional	Envelop, body
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the internet, the email address contains two parts
((OPTION_A)) THIS IS MANDATORY OPTION	Local part, domain name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Global part, domain name
((OPTION_C)) This is optional	Label, domain name
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is a supplementary protocol that allow Non ASCII data to be sent through email
((OPTION_A)) THIS IS MANDATORY OPTION	JPEG
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MPEG
((OPTION_C)) This is optional	MIME
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The actual email transfer is done through
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol that defines a MTA client and server in the internet is called
((OPTION_A)) THIS IS MANDATORY OPTION	SMTP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SNMP
((OPTION_C)) This is optional	TELNET
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of transferring a mail message occurs in-----phase
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SMTP is --- protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

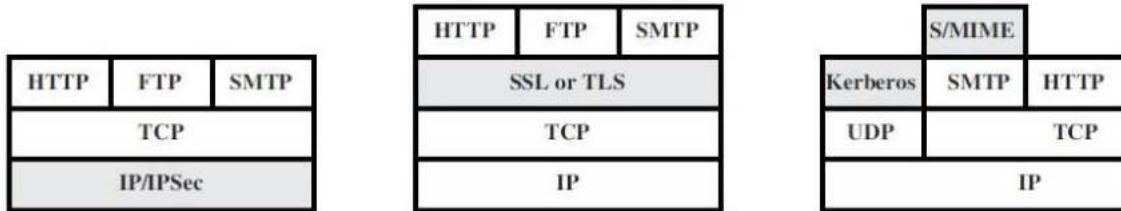
((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in a email transfer need a ---protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in an email transfer uses an ----protocol
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Currently two message asses protocol are available
((OPTION_A)) THIS IS MANDATORY OPTION	POP3, IMAP2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POP4,IMAP1
((OPTION_C)) This is optional	POP3, IMAP4
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

## Unit 4

### 1. Secure Socket Layer Protocol



1. In the above figure from left to right, the correct order of the shaded levels are
- a) Network level, Application level, Transport level
  - b) Application level, Network level, Transport level
  - c) Transport level, Application level, Network level
  - d) Network level, Transport level, Application level

Answer: d

Explanation: IP/IPSec is the Network level, SSL or TLS is the Transport Level, Kerberos and S/MIME are the Application level.

2. In the above figure, which of the above shaded block is transparent to end users and applications?
- a) IP/IPSec
  - b) SSL
  - c) Kerberos
  - d) S/MIME

Answer: a

Explanation: IP/IPSec is the Network layer which is transparent to end users and applications.

3. In terms of Web Security Threats, “Impersonation of another user” is a Passive Attack.
- a) True
  - b) False

Answer: b

Explanation: Passive attacks include eavesdropping on network traffic between browser and server and gaining access to information on a website that is supposed to be restricted. Active attacks include impersonating another user, altering messages in transit between client and server, altering information on a website.

4. Which one of the following is not a higher –layer SSL protocol?
- a) Alert Protocol
  - b) Handshake Protocol
  - c) Alarm Protocol

d) Change Cipher Spec Protocol

Answer: c

Explanation: Three higher –layer protocols are defined as part of SSL: The Handshake Protocol, The Change Cipher Spec Protocol and The Alert Protocol.

5. In the SSL Protocol, each upper layer message if fragmented into a maximum of \_\_\_\_\_ bytes.

- a)  $2^{16}$
- b)  $2^{32}$
- c)  $2^{14}$
- d)  $2^{12}$

Answer: c

Explanation: In the fragmentation process we obtain blocks of  $2^{14}$  bytes which is compressed in the next step.

6. The full form of SSL is

- a) Serial Session Layer
- b) Secure Socket Layer
- c) Session Secure Layer
- d) Series Socket Layer

Answer: b

Explanation: SSL stands for Secure Sockets Layer.

7. Which protocol is used to convey SSL related alerts to the peer entity?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

Answer: a

Explanation: The Alert protocol is used to convey SSL related alerts to the peer entity.

8. Which protocol consists of only 1 bit?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

Answer: d

Explanation: The change cipher spec protocol is bit long.

9. Which protocol is used for the purpose of copying the pending state into the current state?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol

d) Change Cipher Spec Protocol

Answer: d

Explanation: The Change Cipher Spec Protocol is used for this action.

10. In the alert protocol the first byte takes the value 1 or 2 which corresponds to \_\_\_\_\_ and \_\_\_\_\_ respectively.

- a) Select, Alarm
- b) Alert, Alarm
- c) Warning, Alarm
- d) Warning, Fatal

Answer: d

Explanation: The first byte takes the value warning(1) or fatal(2) to convey the severity of the message.

## 2. Pretty good privacy (PGP), S/MIME, SET

1. Pretty good privacy (PGP) security system uses

- a) Public key cryptosystem
- b) Private key cryptosystem
- c) Public & Private key cryptosystem
- d) None of the mentioned

Answer: c

Explanation: PGP uses many encryption techniques such as private key cryptosystem and also public key cryptosystem.

2. Data compression includes

- a) Removal of redundant character
- b) Uniform distribution of characters
- c) Removal of redundant character & Uniform distribution of characters
- d) None of the mentioned

Answer: c

Explanation: Data compression removes redundant character strings in a file and produces a more uniform distribution of characters.

3. PGP offers \_\_\_\_\_ block ciphers for message encryption.

- a) Triple-DES
- b) CAST
- c) IDEA
- d) All of the mentioned

Answer: d

Explanation: Pretty good privacy security system offers three block ciphers for message encryption – Triple-DES, IDEA and CAST.

4. What is the key size allowed in PGP?

- a) 1024-1056
- b) 1024-4056
- c) 1024-4096
- d) 1024-2048

Answer: c

Explanation: Pretty good privacy security system allows 1024 to 4096 bits of key size.

5. Which of the following is not a secured mail transferring methodology?

- a) POP3
- b) SSMTP
- c) Mail using PGP
- d) S/MIME

Answer: a

Explanation: POP (Post Office Protocol) is a simple protocol which fetches the updated mail stored for you by the server. S/MIME (Secure/Multipurpose Internet Mail Extensions), SSMTP (Secure-Simple Mail Transfer Protocol), and PGP (Pretty Good Privacy) are examples of protocols and methods for secure mailing.

6. HTTPS is abbreviated as \_\_\_\_\_

- a) Hypertexts Transfer Protocol Secured
- b) Secured Hyper Text Transfer Protocol
- c) Hyperlinked Text Transfer Protocol Secured
- d) Hyper Text Transfer Protocol Secure

Answer: d

Explanation: Hyper Text Transfer Protocol Secure (HTTPS) is a security protocol which maintains security when data is sent from browser to server and vice versa. It denotes that all communication setup between the browser and the server is encrypted.

7. SSL primarily focuses on \_\_\_\_\_

- a) integrity and authenticity
- b) integrity and non-repudiation
- c) authenticity and privacy
- d) confidentiality and integrity

Answer: a

Explanation: SSL primarily focuses on maintaining the integrity of the data. Also, it maintains authenticity which helps the customers feel secure to communicate over the internet.

8. In SSL, what is used for authenticating a message?

- a) MAC (Message Access Code)
- b) MAC (Message Authentication Code)

- c) MAC (Machine Authentication Code)
- d) MAC (Machine Access Code)

Answer: b

Explanation: For authenticating in SSL, a short message known as MAC (Message Authentication Code) is used for authenticating a message; where both the sender & the receiver need to implement the same key in order to start communicating.

9. \_\_\_\_\_ is used for encrypting data at network level.

- a) IPSec
- b) HTTPS
- c) SMTP
- d) S/MIME

Answer: a

Explanation: IPSec (Secure Internet Protocol) is used for securing data at the network level by using 3 different protocols. These are Encapsulating Secure Payload (ESP), Authentication Header, and Internet Key Exchange (IKE).

10. S/MIME is abbreviated as \_\_\_\_\_

- a) Secure/Multimedia Internet Mailing Extensions
- b) Secure/Multipurpose Internet Mailing Extensions
- c) Secure/Multimedia Internet Mail Extensions
- d) Secure/Multipurpose Internet Mail Extensions

Answer: d

Explanation: Secure/Multipurpose Internet Mail Extensions is the most popular protocol used to send encrypted messages that are digitally signed. In this protocol, the encryption is done with a digital sign in them.

11. S/MIME stands for \_\_\_\_\_.

- a. standard multipurpose internet mail extensions.
- b. secure multipurpose internet mail extensions.
- c. secure multipurpose international mail extensions.
- d. standard multipurpose international mail extensions.

Answer: B.

12. \_\_\_\_\_ uniquely identifies the MIME entities uniquely with reference to multiple contexts.

- a. Content description.
- b. Content -id.
- c. Content type.
- d. Content transfer encoding.

Answer: B.

13. The processed S/MIME along with security related data is called as \_\_\_\_\_.

- a. public key cryptography standard.
- b. private key cryptography standard.
- c. S/MIME.

d. MIME.

Answer: A.

14. In S/MIME, MLA stands for \_\_\_\_\_.

- a. mailing list agent.
- b. multipurpose list agent.
- c. mail lock agent.
- d. message link agent.

Answer: A.

15. The cryptography algorithms used in S/MIME are \_\_\_\_\_.

- a. IDEA.
- b. RC4.
- c. RSA, DES-3.
- d. RC5.

Answer: C.

16. The \_\_\_\_\_ acts as financial institutions who provides a payment card to a card holder.

- a. payment gateway.
- b. card holder.
- c. acquirer.
- d. issuer.

Answer: D.

17. Who will be responsible for processing the payment from the customer's account to the merchant account?

- a. Acquirer.
- b. Merchant.
- c. Issuer.
- d. Payment gateway.

Answer: D.

18. The cardholder combines the PIMD and OIMD and hashes them together to form \_\_\_\_\_.

- a. OPMD.
- b. POMD.
- c. MD.
- d. DS.

Answer: B.

19. Which process will ensure that the issues of the credit card is an approved transactions?

- a. Payment capture.
- b. Payment authorization.
- c. Purchase request.
- d. Purchase reply.

Answer: B.

20. \_\_\_\_\_ is used for hiding the payment information from the merchant.

- a. SET.
- b. SSL.
- c. SHTTP.
- d. TSP.

Answer: A.

### **3. IPSEC**

1. IPSec is designed to provide security at the \_\_\_\_\_

- a) Transport layer
- b) Network layer
- c) Application layer
- d) Session layer

Answer: b

Explanation: IPSec is a set of protocols used to provide authentication, data integrity and confidentiality between two machines in an IP network. In the TCP/IP model, it provides security at the IP layer i.e. the network layer.

2. In tunnel mode, IPSec protects the \_\_\_\_\_

- a) Entire IP packet
- b) IP header
- c) IP payload
- d) IP trailer

Answer: a

Explanation: In the tunnel mode, IPSec adds control bits into the packets to encrypt the entire packet between the IPSec endpoints. Using encryption, it provides secure communication between the two endpoints.

3. Which component is included in IP security?

- a) Authentication Header (AH)
- b) Encapsulating Security Payload (ESP)
- c) Internet key Exchange (IKE)
- d) All of the mentioned

Answer: d

Explanation: AH ensures that there is no retransmission of data from an unauthorized source, and protects against data tampering. ESP provides with content protection and ensures that there is integrity and confidentiality for the message. IKE is used to make sure that only the intended sender and receiver can access the message.

4. Pretty good privacy (PGP) is used in \_\_\_\_\_

- a) Browser security
- b) Email security
- c) FTP security

d) WiFi security

Answer: b

Explanation: PGP is an encryption method used in e-mail security to encrypt and decrypt the content of an e-mail transmitted over the internet. It makes sure that the message cannot be stolen by other unauthorized users.

5. PGP encrypts data by using a block cipher called \_\_\_\_\_

- a) International data encryption algorithm
- b) Private data encryption algorithm
- c) Internet data encryption algorithm
- d) Local data encryption algorithm

Answer: a

Explanation: The IDEA was designed in 1991 by Xuejia Lai and James Massey. Before IDEA, PGP used the cipher method BassOmatic.

## VPN

1. A \_\_\_\_\_ is an extension of an enterprise's private intranet across a public network such as the internet, creating a secure private connection.

- a) VNP
- b) VPN
- c) VSN
- d) VSPN

Answer: b

Explanation: VPN provides enhanced security and online anonymity to users on the internet. It is also used to unblock websites that are unavailable in certain regions.

2. When were VPNs introduced into the commercial world?

- a) Early 80's
- b) Late 80's
- c) Early 90's
- d) Late 90's

Answer: d

Explanation: VPNs were first introduced in the year 1996. Then as the internet started to get popularized, the need for connection security increased. VPN was a great solution to this, and that's when VPNs were implemented in the commercial world.

3. What protocol is NOT used in the operation of a VPN?

- a) PPTP
- b) IPsec
- c) YMUM
- d) L2TP

Answer: c

Explanation: PPTP is a tunneling protocol which was initially used for the creation of VPNs.

IPSec is used in encrypting the traffic flowing in the VPN. L2TP is used to tunnel all the L2 traffic on the VPN.

4. Which of the following statements is NOT true concerning VPNs?

- a) Financially rewarding compared to leased lines
- b) Allows remote workers to access corporate data
- c) Allows LAN-to-LAN connectivity over public networks
- d) Is the backbone of the Internet

Answer: d

Explanation: VPNs are not the backbone of the Internet as they are just a method to create private intranets on the internet. They are used for enhancing the connection security for the users.

5. Traffic in a VPN is NOT \_\_\_\_\_

- a) Invisible from public networks
- b) Logically separated from other traffic
- c) Accessible from unauthorized public networks
- d) Restricted to a single protocol in IPsec

Answer: c

Explanation: Traffic in a VPN is not accessible from any unauthorized public networks because it is secured with the masking IP address. This provides the benefit of access to blocked resources to the users.

6. VPNs are financially speaking \_\_\_\_\_

- a) Always more expensive than leased lines
- b) Always cheaper than leased lines
- c) Usually cheaper than leased lines
- d) Usually more expensive than leased lines

7. Which layer 3 protocols can be transmitted over an L2TP VPN?

- a) Only IP
- b) Only IPX
- c) Only ICMP
- d) IP and IPX

Answer: d

Explanation: L2TP stands for Layer 2 Tunneling Protocol. It is used to tunnel all the L2 traffic on an IP network and is able to transmit network layer's IP and IPX protocol data.

8. ESP (Encapsulating Security Protocol) is defined in which of the following standards?

- a) IPsec
- b) PPTP
- c) PPP
- d) L2TP

Answer: a

Explanation: ESP is a security component of IPSec. ESP provides content protection and

ensures that there is integrity and confidentiality of the message. The other security components of IPSec are Authentication Header and Internet Key Exchange.

9. L2F was developed by which company?

- a) Microsoft
- b) Cisco
- c) Blizzard Entertainment
- d) IETF

Answer: b

Explanation: L2F stands for Layer 2 Forwarding protocol. It was designed by Cisco to tunnel PPP traffic, helping create VPNs over the internet.

10. Which layer of the OSI reference model does PPTP work at?

- a) Layer 1
- b) Layer 2
- c) Layer 3
- d) Layer 4

Answer: b

Explanation: PPTP stands for Point-to-Point Tunneling Protocol. PPTP is a tunneling protocol that was primitive used to create VPNs. It is no longer used for VPNs due to the lack of security it provides.

11. Which layer of the OSI reference model does IPsec work at?

- a) Layer 1
- b) Layer 2
- c) Layer 3
- d) Layer 4

Answer: c

Explanation: IPSec is a set of protocols used to provide authentication, data integrity and confidentiality between two machines in an IP network. It operates in the network layer.

1 . \_\_\_\_\_ is a collection of protocols designed by the IETF (Internet Engineering Task Force) to provide security for a packet at the network level.

- A. IPSec
- B. SSL
- C. PGP
- D. none of the above

Correct Answer :

**IPSec**

[View Answer](#)

2 . \_\_\_\_\_ operates in the transport mode or the tunnel mode.

- A. IPSec
- B. SSL
- C. PGP
- D. none of the above

Correct Answer :

**IPSec**

3 . In the \_\_\_\_\_ mode, IPSec protects information delivered from the transport layer to the network layer.

- A. transport
- B. tunnel
- C. either (a) or (b)
- D. neither (a) nor (b)

Correct Answer :

**transport**

[View Answer](#)

4 . IPSec in the \_\_\_\_\_ mode does not protect the IP header.

- A. transport
- B. tunnel
- C. either (a) or (b)
- D. neither (a) nor (b)

Correct Answer :

**transport**

"|

1	Number of phases in the handshaking protocol? a) 2 b) 3 c) 4 d) 5	c
2	In the handshake protocol which is the message type first sent between client and server ? a) server_hello b) client_hello c) hello_request d) certificate_request	b
3	The full form of SSL is a) Serial Session Layer b) Secure Socket Layer c) Session Secure Layer d) Series Socket Layer	b
4	Which protocol is used to convey SSL related alerts to the peer entity? a) Alert Protocol b) Handshake Protocol c) Upper-Layer Protocol d) Change Cipher Spec Protocol	a
5	In the alert protocol the first byte takes the value 1 or 2 which corresponds to _____ and _____ respectively. a) Select, Alarm b) Alert, Alarm c) Warning, Alarm d) Warning, Fatal	d
6	The OSI security architecture reference model is _____ a) ISO 7498-2 b) ISO 7498-3 c) ISO 7498-1 d) ISO 7498-4	a
7	ISAKMP stands for a) Internet Security Association and Key Management Protocol b) International Security Association and Key Management Protocol c) Intranet Security Association and Key Management Protocol d) Internet Security Agency and Key Management Protocol	a
8	Which protocol defines the mechanism of key exchange or key agreement protocols in which two parties must agree on key generated before data transmission a) ISAKMP b) Oakley	b

	c) Diffie Hellman d) none of above	
9	There are how many phases of operations in IKE a) 1 b) 2 c) 3 4) 4	b
10	VPN stands for a) Virtual Private Network b) Virtual Proxy Network c) Very Powerful Network d) None of above	a
11	The first sub-protocol of SSL is a) Handshake Protocol b) Alert Protocol c) Record Protocol d) Authentication Protocol	a
12	How many phases are there in Handshake Protocol a) 1 b) 2 c) 3 d) 4	d
13	In which phase of Handshake protocol does server sends its certificate its public key, and also request certificate from the client a) Phase 1 b) Phase 2 c) Phase 3 d) Phase 4	b
14	SET stands for a) Security Electronic Transaction b) Secure Electronic Transaction c) Secure Electronic Transmission d) Secure Electronic Traffic	b
15	SET is a payment system a) True b) False	b
16	PGP stands for a) Pretty Good Privacy b) Pretty Good Protocol c) Pretty Good Public d) Playable Group Privacy	a
17	Key S/MIME uses which certificate to determine whether a public key used to verify a signature is trustworthy	c

	a) X.509v1 b) X.508v3 c) X.509v3 d) X.508v1	
18	Which is a set of rules and regulations designed to protect credit payments of users a) S/MIME b) PGP c) SET d) SSL	c
19	_____ creates a secure communication channel among all parties involved in transaction a) PGP b) SET c) ESP Tunnel Mode d) ESP Transport Mode	b
20	PGP uses the concept of a) Public key Cryptography b) Private key Cryptography c) Hybrid key Cryptography d) Both a and b	a
21	Digital Signature parameter in PGP uses which algo a) RSA b) SHA c) DH d) Both a or b	d
22	Two main protocol of TLS are a) Handshake and Record b) Record and Alert c) Handshake and Alert d) Handshake and Authentication	a
23	Which functionality of PGP guarantees that the message or file come from the sender and not from the intruder a) Message Encryption b) Compression c) Authentication d) Digital signature	d
24	Operations performed in Record Protocol after connection is established and authenticated is done by a) only client b) only server c) both client and server d) none of above	c
25	Compression size of data should not exceed	a

	a) 1024 bytes b) 1024 bits c) 512 bytes d) 512 bits	
26	Length of record is not to exceed a) 32767 bits b) 65535 bits c) 32767 bytes d) 65535 bytes	c
27	Which protocol of SSL takes application data to send over server a) Alert Protocol b) Record Protocol c) Handshake Protocol d) Change Cipher Specification	b
28	What is the alert message for alert code 0 a) close_notify b) unexpected_message c) decompression_failure d) handshake_failure	a
29	What is the alert message for alert code 30 a) close_notify b) unexpected_message c) decompression_failure d) handshake_failure	c
30	What is the alert message for alert code 40 a) close_notify b) unexpected_message c) decompression_failure d) handshake_failure	d
31	Alert protocol uses how many bytes to generate alert a) 1 b) 2 c) 4 d) 8	b
32	SSL make use of which protocol for reliable secure process-to-process delivery of packets a) UDP b) TCP c) Both a and b d) none of above	b

33	Main function of TLS is a) to protect attack b) to detect attack c) to detect duplication d) to authenticate	a
34	Current version of SSL used is a) 1.0 b) 2.0 c) 3.0 d) 4.0	c
35	IPSEC is one of the important way to provide web security a) True b) False	a
36	Which is the perspective security to application layer in OSI security architecure a) Authentication b) Access Control c) Non-Repudiation d) Data Integrity	a
37	Ipv4 address is a a) 16 bit b) 32 bit c) 64 bit d) 128 bit	b
38	Ipv6 address is a a) 16 bit b) 32 bit c) 64 bit d) 128 bit	d
39	How many protocol does Ipsec provides at network layer a) 2 b) 3 c) 4 d) 1	a
40	Authentication Header protocol does not provide a) Data Confidentiality b) Non repudiation c) Data Integrity d) Data Authentication	a
41	What are the no. Of modes in which AH can work a) 1 b) 2 c) 3	b

	d) 4	
42	Security Association is a contract between the communication parties about factors like Ipsec protocol version ,mode of operation,cryptographic algorithm,key etc a) True b) False	a
43	Virtual tunnel is established between 2 endpoints via a) virtual tunneling protocol b) data encryption c) Both a and b d) None of above	c
44	In which attack user activities are monitored to get login into user's system a) Deceptive phishing b) Malware based phishing c) Session Hijacking d) Web trojans	c
45	Attack on network software to make it vulnerable is a) Logic attack b) Malware based phishing c) Session Hijacking d) Web trojans	a
46	Cross Site Scripting (XSS) allows the attackers to inject client side script into web pages a) True b) False	a
47	Type of Backdoor in which the software remain unchanged , but the object code gets modified maliciously a) Asymmetric Backdoors b) Symmetric Backdoors c) Object Code Backdoor d) none of above	c
48	Once the file is encrypted using PGP program only the intended recipients can decrypt it a) True b) False	a
49	Ipv4 has larger address space then Ipv6 a) True b) False	b
50	In Authentication Header Ipsec layer is between a) Application layer and Transport layer b) Transport layer and Network layer c) Network layer and Data link layer d) Application layer and Session layer	b



# Question Bank for Information and Cyber Security (ICS)

## 1. Why would a hacker use a proxy server?

- A. To create a stronger connection with the target.
- B. To create a ghost server on the network.
- C. To obtain a remote access connection.
- D. To hide malicious activity on the network.

**Correct Answer – D**

**Explanation –** Proxy servers exist to act as an intermediary between the hacker and the target and services to keep the hacker anonymous to the network.

## 2. What type of symmetric key algorithm using a streaming cipher to encrypt information?

- A. RC4
- B. Blowfish
- C. SHA
- D. MD5

**Correct Answer – A**

**Explanation –** RC4 uses streaming ciphers.

## 3. Which of the following is not a factor in securing the environment against an attack on security?

- A. The education of the attacker
- B. The system configuration
- C. The network architecture
- D. The business strategy of the company
- E. The level of access provided to employees

**Correct Answer – D**

**Explanation –** All of the answers are factors supporting the exploitation or prevention of an attack. The business strategy may provide the motivation for a potential attack, but by itself will not influence the outcome.

## 4. What type of attack uses a fraudulent server with a relay address?

- A. NTLM
- B. MITM
- C. NetBIOS
- D. SMB

**Correct Answer – B**

**Explanation –** MITM (Man in the Middle) attacks create a server with a relay address. It is used in SMB relay attacks.

## 5. What port is used to connect to the Active Directory in Windows 2000?

- A. 80
- B. 445
- C. 139
- D. 389

**Correct Answer – D**

**Explanation –** The Active Directory Administration Tool used for a Windows 2000 LDAP client uses port 389 to connect to the Active Directory service.

## 6. To hide information inside a picture, what technology is used?

- A. Rootkits
- B. Bitmapping

- C. Steganography
- D. Image Rendering

**Correct Answer – C**

**Explanation** – Steganography is the right answer and can be used to hide information in pictures, music, or videos.

**7. Which phase of hacking performs actual attack on a network or system?**

- A. Reconnaissance
- B. Maintaining Access
- C. Scanning
- D. Gaining Access

**Correct Answer – D**

**Explanation** – In the process of hacking, actual attacks are performed when gaining access, or ownership, of the network or system. Reconnaissance and Scanning are information gathering steps to identify the best possible action for staging the attack. Maintaining access attempts to prolong the attack.

**8. Attempting to gain access to a network using an employee's credentials is called the \_\_\_\_\_ mode of ethical hacking.**

- A. Local networking
- B. Social engineering
- C. Physical entry
- D. Remote networking

**Correct Answer – A**

**Explanation** – Local networking uses an employee's credentials, or access rights, to gain access to the network. Physical entry uses credentials to gain access to the physical IT infrastructure.

**9. Which Federal Code applies the consequences of hacking activities that disrupt subway transit systems?**

- A. Electronic Communications Interception of Oral Communications
- B. 18 U.S.C. § 1029
- C. Cyber Security Enhancement Act 2002
- D. 18 U.S.C. § 1030

**Correct Answer – C**

**Explanation** – The Cyber Security Enhancement Act 2002 deals with life sentences for hackers who recklessly endanger the lives of others, specifically transportation systems.

**10. Which of the following is not a typical characteristic of an ethical hacker?**

- A. Excellent knowledge of Windows.
- B. Understands the process of exploiting network vulnerabilities.
- C. Patience, persistence and perseverance.
- D. Has the highest level of security for the organization.

**Correct Answer – D**

**Explanation** – Each answer has validity as a characteristic of an ethical hacker. Though having the highest security clearance is ideal, it is not always the case in an organization.

**11. What is the proper command to perform an Nmap XMAS scan every 15seconds?**

- A. nmap -sX -sneaky
- B. nmap -sX -paranoid
- C. nmap -sX -aggressive
- D. nmap -sX -polite

**Correct Answer – A**

**Explanation** – SX is used to identify a xmas scan, while sneaky performs scans 15 seconds apart.

**12. What type of rootkit will patch, hook, or replace the version of system call in order to hide information?**

- A. Library level rootkits
- B. Kernel level rootkits
- C. System level rootkits
- D. Application level rootkits

**Correct Answer – A**

**Explanation** – Library leve rootkits is the correct answer. Kerel level focuses on replaceing specific code while application level will concentrate on modifying the behavior of the application or replacing application binaries. The type, system level, does not exist for rootkits.

**13. What is the purpose of a Denial of Service attack?**

- A. Exploit a weakness in the TCP/IP stack
- B. To execute a Trojan on a system
- C. To overload a system so it is no longer operational
- D. To shutdown services by turning them off

**Correct Answer – C**

**Explanation** – DoS attacks force systems to stop responding by overloading the processing of the system.

**14. What are some of the most common vulnerabilities that exist in a network or system?**

- A. Changing manufacturer, or recommended, settings of a newly installed application.
- B. Additional unused features on commercial software packages.
- C. Utilizing open source application code
- D. Balancing security concerns with functionality and ease of use of a system.

**Correct Answer – B**

**Explanation** – Linux is an open source code and considered to have greater security than the commercial Windows environment. Balancing security. Ease of use and functionality can open vulnerabilities that already exist. Manufacturer settings, or default settings, may provide basic protection against hacking threats, but need to change to provide advance support. The unused features of application code provide an excellent opportunity to attack and cover the attack.

**15. What is the sequence of a TCP connection?**

- A. SYN-ACK-FIN
- B. SYN-SYN ACK-ACK
- C. SYN-ACK
- D. SYN-SYN-ACK

**Correct Answer – B**

**Explanation** – A three-handed connection of TCP will start with a SYN packet followed by a SYN-ACK packet. A final ACK packet will complete the connection.

**16. What tool can be used to perform SNMP enumeration?**

- A. DNSlookup
- B. Whois
- C. Nslookup
- D. IP Network Browser

**Correct Answer – D**

**Explanation** – SNMPPUtil and IP Network Browser is SNMP enumeration tool

**17. Which ports should be blocked to prevent null session enumeration?**

- A. Ports 120 and 445
- B. Ports 135 and 136
- C. Ports 110 and 137
- D. Ports 135 and 139

**Correct Answer – D**

**Explanation** – Port 139 is the NetBIOS Session port typically can provide large amounts of information using APIs to connect to the system. Other ports that can be blocked in 135, 137,138, and 445.

**18. The first phase of hacking an IT system is compromise of which foundation of security?**

- A. Availability
- B. Confidentiality
- C. Integrity
- D. Authentication

**Correct Answer – B**

**Explanation** – Reconnaissance is about gathering confidential information, such as usernames and passwords.

**19. How is IP address spoofing detected?**

- A. Installing and configuring a IDS that can read the IP header
- B. Comparing the TTL values of the actual and spoofed addresses
- C. Implementing a firewall to the network
- D. Identify all TCP sessions that are initiated but does not complete successfully

**Correct Answer – B**

**Explanation** – IP address spoofing is detectable by comparing TTL values of the actual and spoofed IP addresses

**20. Why would a ping sweep be used?**

- A. To identify live systems
- B. To locate live systems
- C. To identify open ports
- D. To locate firewalls

**Correct Answer – A**

**Explanation** – A ping sweep is intended to identify live systems. Once an active system is found on the network, other information may be distinguished, including location. Open ports and firewalls.

**21. What are the port states determined by Nmap?**

- A. Active, inactive, standby
- B. Open, half-open, closed
- C. Open, filtered, unfiltered
- D. Active, closed, unused

**Correct Answer – C**

**Explanation** – Nmap determines that ports are open, filtered, or unfiltered.

**22. What port does Telnet use?**

- A. 22
- B. 80
- C. 20
- D. 23

**Correct Answer – D**

**Explanation** – Telnet uses port 23.

**23. Which of the following will allow footprinting to be conducted without detection?**

- A. PingSweep
- B. Traceroute
- C. War Dialers
- D. ARIN

**Correct Answer – D**

**Explanation** – ARIN is a publicly accessible database, which has information that could be valuable. Because it is public, any attempt to obtain information in the database would go undetected.

**24. Performing hacking activities with the intent on gaining visibility for an unfair situation is called \_\_\_\_\_.**

- A. Cracking
- B. Analysis
- C. Hacktivism
- D. Exploitation

**Correct Answer – C**

**Explanation** – Hacktivism is the act of malicious hacking for a cause or purpose.

**25. What is the most important activity in system hacking?**

- A. Information gathering
- B. Cracking passwords
- C. Escalating privileges
- D. Covering tracks

**Correct Answer – B**

**Explanation** – Passwords are a key component to access a system, making cracking the password the most important part of system hacking.

**26. A packet with no flags set is which type of scan?**

- A. TCP
- B. XMAS
- C. IDLE
- D. NULL

**Correct Answer – D**

**Explanation** – A NULL scan has no flags set.

**27. Sniffing is used to perform \_\_\_\_\_ fingerprinting.**

- A. Passive stack
- B. Active stack
- C. Passive banner grabbing
- D. Scanned

**Correct Answer – A**

**Explanation** – Passive stack fingerprinting uses sniffing technologies instead of scanning.

**28. Phishing is a form of \_\_\_\_\_.**

- A. Spamming
- B. Identify Theft
- C. Impersonation
- D. Scanning

**Correct Answer – C**

**Explanation** – Phishing is typically a potential attacker posing, or impersonating, a financial institution

**29. Why would HTTP Tunneling be used?**

- A. To identify proxy servers
- B. Web activity is not scanned
- C. To bypass a firewall
- D. HTTP is a easy protocol to work with

**Correct Answer – C**

**Explanation** – HTTP Tunneling is used to bypass the IDS and firewalls present on a network.

**30. Which Nmap scan is does not completely open a TCP connection?**

- A. SYN stealth scan
- B. TCP connect
- C. XMAS tree scan
- D. ACK scan

**Correct Answer – A**

**Explanation** – Also known as a “half-open scanning,” SYN stealth scan will not complete a full TCP connection.

**31. What protocol is the Active Directory database based on?**

- A. LDAP
- B. TCP
- C. SQL
- D. HTTP

**Correct Answer – A**

**Explanation** – Active4 direction in Windows 200 is based on a Lightweight Directory Access Protocol (LDAP).

**32. Services running on a system are determined by \_\_\_\_\_.**

- A. The system’s IP address.
- B. The Active Directory
- C. The system’s network name
- D. The port assigned

**Correct Answer – D**

**Explanation** – Hackers can identify services running on a system by the open ports that are found.

**33. What are the types of scanning?**

- A. Port, network, and services
- B. Network, vulnerability, and port
- C. Passive, active, and interactive
- D. Server, client, and network

**Correct Answer – B**

**Explanation** – The three types of accepted scans are port, network, and vulnerability.

**34. Enumeration is part of what phase of ethical hacking?**

- A. Reconnaissance
- B. Maintaining Access
- C. Gaining Access
- D. Scanning

**Correct Answer – C**

**Explanation** – Enumeration is a process of gaining access to the network by obtaining information on a user or system to be used during an attack.

**35. Keyloggers are a form of \_\_\_\_\_.**

- A. Spyware
- B. Shoulder surfing
- C. Trojan
- D. Social engineering

**Correct Answer – A**

**Explanation** – Keyloggers are a form of hardware or software spyware installed between the keyboard and operating system.

**36. What are hybrid attacks?**

- A. An attempt to crack passwords using words that can be found in dictionary.
- B. An attempt to crack passwords by replacing characters of a dictionary word with numbers and symbols.
- C. An attempt to crack passwords using a combination of characters, numbers, and symbols.
- D. An attempt to crack passwords by replacing characters with numbers and symbols.

**Correct Answer – B**

**Explanation** – Hybrid attacks do crack passwords that are created with replaced characters of dictionary type words.

**37. Which form of encryption does WPA use?**

- A. Shared key
- B. LEAP
- C. TKIP
- D. AES

**Correct Answer – C**

**Explanation** – TKIP is used by WPA

**38. What is the best statement for taking advantage of a weakness in the security of an IT system?**

- A. Threat
- B. Attack
- C. Exploit
- D. Vulnerability

**Correct Answer – C**

**Explanation** – A weakness in security is exploited. An attack does the exploitation. A weakness is vulnerability. A threat is a potential vulnerability.

**39. Which database is queried by Whois?**

- A. ICANN
- B. ARIN
- C. APNIC
- D. DNS

**Correct Answer – A**

**Explanation** – Who utilizes the Internet Corporation for Assigned Names and Numbers.

**40. Having individuals provide personal information to obtain a free offer provided through the Internet is considered what type of social engineering?**

- A. Web-based
- B. Human-based
- C. User-based
- D. Computer-based

**Correct Answer – D**

**Explanation** – Whether using email, a fake website, or popup to entice the user, obtaining information from an individual over the Internet is a computer-based type of social engineering

**1) You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,**

$$A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$$

**Is the given matrix 'A', a valid key to be used for encryption?**

- a. Yes
- b. No
- c. Can't be determined
- d. Data insufficient

**Answer:** b) No

**Explanation:**

For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist. Here, in this case,

$$|A| = 0$$

Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the [Hill cipher](#).

**2) The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?**

- a. The input text is divided into two parts: one being left half and another one being right half.
- b. Swapping of the left and right halves are performed after each round.
- c. The plain text is converted into a matrix form first
- d. None of the above

**Answer:** c) The plain text is converted into a matrix form first

**Explanation:**

The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

**3) Among the following given options, chose the strongest encryption technique?**

- a. DES ( Data Encryption Standard)
- b. Double DES
- c. Triple DES
- d. AES (Advance Encryption Standard)

**Answer:** d) AES (Advance Encryption Standard)

**Explanation:**

It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

**4) What is the full-form of RSA in the RSA encryption technique?**

- a. Round Security Algorithm
- b. Rivest, Shamir, Adleman
- c. Robert, Shamir, Addie
- d. None of the above

**Answer:** b) Rivest, Shamir, Adleman

**Explanation:**

The RSA algorithm was named after the three scientists who developed this technique and the name RSA is itself the abbreviation of their names: Rivest, Shamir, and Adleman.

**5) Consider the following steps,**

- i. Substitution bytes
- ii. Shift Rows
- iii. Mix columns
- iv. Add round key

**The above steps are performed in each round of which of the following ciphers?**

- a. Rail fence cipher
- b. Data Encryption Standard (DES)
- c. Advance Encryption Standard (AES)
- d. None of the above

**Answer:** c) Advance Encryption Standard (AES)

**Explanation:**

Each round of AES includes the mentioned steps.

**1) What is the block size of plain text in SHA- 512 algorithm?**

- a. 512 bits
- b. 1024 bits
- c. 2048 bits

- d. None of the above

**Answer:** b. 1024 bits

**Explanation:**

The SHA- 512 algorithm uses blocks of plain text one at a time to encrypt them into ciphertext. The size of each block in the SHA- 512 algorithm is 1024 bits.

**2) All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?**

- i. Substitution bytes
- ii. Shift rows
- iii. Mix columns
- iv. Add round key

**Options**

- a. i.
- b. iii.
- c. All of the mentioned
- d. None of the mentioned

**Answer:** b. iii.

**Explanation:**

In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.

**3) What does IDEA stand for in the world of cryptography?**

**or**

**The IDEA word in the IDEA algorithm is the abbreviation for which of the following?**

- a. Independent Decryption Environment Analysis
- b. International Defense Encryption Area
- c. International Data Encryption Algorithm
- d. None of the above

**Answer:** c. International Data Encryption Algorithm

**Explanation:**

The IDEA Algorithm stands for "International Data Encryption Algorithm".

**4) How many sub-keys in the total are used by the IDEA for encrypting the plain text into ciphertext?**

- a. 64 sub- keys
- b. 48 sub- keys
- c. 52 sub- keys
- d. Only one key and no subkeys

**Answer:** c. 52 sub- keys

**Explanation:**

There are a total of 8 rounds in the IDEA technique for encryption and each of them uses 6 keys. Apart from that, 4 extra keys are used in the final round that is the output transformation round. This gives us a total of 52 subkeys.

$$(8 \times 6) + 4 = 52$$

**5) "The number of rounds in the AES algorithm depends upon the key size being used."**  
**Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?**

- a. 128 key size: 10 rounds
- b. 192 key size: 12 rounds
- c. 256 key size: 14 rounds
- d. All of the above

**Answer:** d. All of the above

**Explanation:**

All the mentioned options display the correct relation between the number of rounds and the key size used in the AES algorithm.

**6) Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?**

- a. Avalanche effect
- b. Completeness
- c. Both a. and b.
- d. None of the above

**Answer:** c. Both a. and b.

**Explanation:**

Avalanche effect and Completeness are the two characteristic properties of Block ciphers which differ them from stream ciphers.

**81. Public key encryption/decryption is not preferred because**

- a.** it is slow

- b.** it is hardware/software intensive
- c.** it has a high computational load
- d.** all of the mentioned

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**Answer:** (d).all of the mentioned

- 82.** Which one of the following is not a public key distribution means?
- a.** Public-Key Certificates
  - b.** Hashing Certificates
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (b).Hashing Certificates

- 83.** What is the PGP stand for?
- a.** Permuted Gap Permission
  - b.** Permuted Great Privacy
  - c.** Pretty Good Permission
  - d.** None of the mentioned

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**Answer:** (d).None of the mentioned

- 84.** PGP makes use of which cryptographic algorithm?
- a.** DES
  - b.** AES

c. RSA

d. Rabin

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**Answer:** (c).RSA

**85.** USENET is related to which of the following Public Key distribution schemes?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (b).Public announcements

**86.** Which of the following public key distribution systems is most secure?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (a).Public-Key Certificates

**87.** Which systems use a timestamp?

i) Public-Key Certificates

ii) Public announcements

iii) Publicly available directories

iv) Public-Key authority

a. i) and ii)

- b.** iii) and iv)
- c.** i) and iv)
- d.** iv) only

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**Answer:** (c).i) and iv)

- 88.** Which of these systems use timestamps as an expiration date?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 89.** Which system uses a trusted third party interface?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 90.** Publicly Available directory is more secure than which other system?
- a.** Public-Key Certificates
  - b.** Public announcements

- c. Public-Key authority
- d. None of the mentioned

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**Answer:** (b).Public announcements

1. A method used by an IDS that involves checking for a pattern to identify unauthorized activity.*(No Answer)*
  - a. **CORRECT:** Pattern Matching
  - b. Session Splicing
  - c. Protocol Decoding
  - d. State Table
2. A list or table of stored by a router (or switch) that controls access to and from a network.*(No Answer)*
  - . State Table
    - a. **CORRECT:** Access Control List (ACL)
    - b. Session Splicing
    - c. Packet Filter
3. An analysis method used by some IDS that looks for instances that are not considered normal behavior.*(No Answer)*
  - . Stateful Inspection
    - a. **CORRECT:** Anomaly Detection
    - b. Evasion
    - c. Pattern Matching
4. Bypassing a device, or performing another action, to attack or place malware on a target network without being detected.*(No Answer)*
  - . Packet Filter
    - a. State Table
    - b. **CORRECT:** Evasion
    - c. Honeypot

5. A type of firewall closely related to a packet filter that can track the status of a connection through use of a state table that keeps track of connection activities.*(No Answer)*
  - . Anomaly Detection
    - a. Protocol Decoding
    - b. **CORRECT:** Stateful Inspection
    - c. State Table
6. A tool that uses the monitoring of network traffic, detection of unauthorized access attempts, and notification of unauthorized access attempts to network administrator.*(No Answer)*
  - . Anomaly Detection
    - a. Access Control List (ACL)
    - b. **CORRECT:** Intrusion Detection System (IDS)
    - c. Session Splicing
7. A type of stateless inspection used in some routers and firewalls to limit flow of traffic to what is on the ACL.*(No Answer)*
  - . **CORRECT:** Packet Filter
    - a. Proxy Server
    - b. Evasion
    - c. State Table
8. A way of looking at raw packet data.*(No Answer)*
  - . Proxy Server
    - a. Session Splicing
    - b. **CORRECT:** Protocol Decoding
    - c. Pattern Matching
9. A server (or application) that intercepts the requests clients make of another server, fills the requests that it can, and then forwards the requests it can't handle on to the other server thus helping to improve performance and security.*(No Answer)*
  - . Honeypot
    - a. **CORRECT:** Proxy Server
    - b. Packet Filter
    - c. State Table

10. A table in which data about connection activity is kept by a stateful firewall.(*No Answer*)
- . Evasion
    - a. **CORRECT:** State Table
    - b. Honeypot
    - c. Proxy Server
11. Something set up on a separate network (or in DMZ) to attract hackers and lure them away from the real network; it logs keystrokes, provides other information about an attacker, and also provides warning that someone is trying to attack your network.(*No Answer*)
- . Proxy Server
    - a. State Table
    - b. Evasion
    - c. **CORRECT:** Honeypot
12. A way to change network address information in IP packet headers with a router by connecting multiple computers using one IP address connected to the Internet (or IP network) to convert many private addresses into one public address.(*No Answer*)
- . Access Control List (ACL)
    - a. **CORRECT:** Network Address Translation (NAT)
    - b. Anomaly Detection
    - c. Intrusion Detection System (IDS)
13. A method of avoiding detection by an IDS by sending portions of a request in different packets.(*No Answer*)
- . **CORRECT:** Session Splicing
    - a. Protocol Decoding
    - b. Pattern Matching
    - c. Evasion

1.

What are drawbacks of the host based IDS ?

- A.) Unselective logging of messages may increase the audit burdens
- B.) Selective logging runs the risk of missed attacks
- C.) They are very fast to detect

- D.) They have to be programmed for new patterns

**Show Answer**

**Answer: Option 'A'**

**Unselective logging of messages may increase the audit burdens**

2.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

3.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

4.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

5.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider

- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

6.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

7.

What are characteristics of stack based IDS ?

- A.) They are integrated closely with the TCP/IP stack and watch packets
- B.) The host operating system logs in the audit information
- C.) It is programmed to interpret a certain series of packets
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They are integrated closely with the TCP/IP stack and watch packets**

8.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider
- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

9.

What are characteristics of Network based IDS ?

- A.) They look for attack signatures in network traffic
- B.) Filter decides which traffic will not be discarded or passed
- C.) It is programmed to interpret a certain series of packet
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They look for attack signatures in network traffic**

10.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

11.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

1. -systematic tracking of incoming and outgoing traffic: to ascertain how an attack was carried out or how an event occurred on a network.

-intruders and network users often leave trail behind

-identify locations where relevant digital evidence exists

-crucial when developing data map of digital evidence(*No Answer*)

- a. SIM Cards
  - b. Windows Registry
  - c. **CORRECT: Network Forensics**
  - d. Drive Slack
2. -personal digital assistant: can be separated devices from mobile phones
- PDA houses a microprocessor, ROM, RAM, disk drive and various components
- most common PDA, although not referred to as such:IPAD(*No Answer*)
- . Partition
    - a. SIM Cards
    - b. EEPROM
    - c. **CORRECT: PDA's**
3. -a logical drive(*No Answer*)
- . EEPROM
    - a. PDA's
    - b. SIM Cards
    - c. **CORRECT: Partition**
4. - .EVE -> .DFT -> IOLogErrors
- .DD -> .DFT -> IOLogErrors -> MD5(*No Answer*)
- . Additional SIM Card Purposes
    - a. Types of The Formats ProDiscover Creates
    - b. **CORRECT: Files Found When Acquisition is Done (ProDiscover)**
    - c. Mobile Forensics Equipment
5. -allows you to create a representation of another computer on an existing physical computer.
- a virtual machine is just a few files on your hard drive: must allocate space to it; dynamic or static
- a virtual machine recognizes components of the physical machine its on: virtual OS is limited by the physical machines O/S and RAM. (*No Answer*)

- . Partition
  - a. **CORRECT:** Virtual Machine
  - b. Drive Slack
  - c. SIM Cards
- 6. Considerations
  - determine the scope of the investigation.
  - determine what the case requires
  - whether you should collect all info
  - what to do in case of scope creep
- \*the key is to start with a plan but remain flexible in the face of new evidence(*No Answer*)
- . **CORRECT:** Examination Plan
  - a. Drive Slack
  - b. Partition
  - c. SIM Cards
- 7. Can be exported as:
  - RTF ~good for thumbnails and book marks
  - TEXT~plain text(*No Answer*)
- . Drive Slack
  - a. Write Blockers
  - b. Windows Registry
  - c. **CORRECT:** ProDiscover Report
- 8. -UNIX DD~most common raw image format
  - .EVE~has case metadata information(*No Answer*)
- . EnCase Output Formats
  - a. Five Major Categories
  - b. ProDiscover Report
  - c. **CORRECT:** Types of The Formats ProDiscover Creates
- 9. -electronically erasable programmable read-only memory
  - how phones store system data

-enables service providers to reprogram phones without having to physically access memory chips

-OS is stored in ROM: nonvolatile memory(*No Answer*)

- . Partition
  - a. file system
  - b. **CORRECT: EEPROM**
  - c. SIM Cards

10. -file manipulation: file names and extensions/ hidden property

-disk manipulation: hidden partitions/bad clusters

-encryption: bit shifting/stenography(*No Answer*)

- . Windows Registry
  - a. Examination Plan
  - b. Virtual Machine
  - c. **CORRECT: Data-hiding Techniques**

11. -gives us a road map to data on a disk

-type of file system an OS used determines how data is stored on the disk(*No Answer*)

- . **CORRECT: file system**
  - a. Drive Slack
  - b. EEPROM
  - c. SIM Cards

12. -the main concerns with mobile devices are loss of power and synchronization with PC's or the cloud (wired or wireless).

-all mobile devices have volatile memory that may contain valuable information: making sure they don't lose power before you can retrieve RAM data is critical.

-isolated the device from incoming signals with one of the following options: shielded container (paint can, enclosures), use the Faraday Bag, use eight layers of anti-static bags, aluminum foil.

-if device is not isolated, the data of the device will continue to change while in custody of the specialist.(*No Answer*)

- . Additional SIM Card Purposes
  - a. Network Forensics
  - b. **CORRECT:** Acquisition Procedures for Mobile Devices
  - c. Challenges With Mobile Devices

13. -acquisition~preservation~collection

-validation~discrimination~culling

~examination~extraction~review

~reconstruction~analysis

~reporting~presentation~production(*No Answer*)

- . Network Forensics
  - a. **CORRECT:** Five Major Categories
  - b. SIM Cards
  - c. Write Blockers

14. -a database that stores hardware and software configuration information, network connections, user preferences, and setup information.

-can contain valuable info about current/past applications and user created information(*No Answer*)

- . SIM Cards
  - a. **CORRECT:** Windows Registry
  - b. file system
  - c. Write Blockers

15. -unused space in a cluster between the end of an active file and the end of a cluster. (Includes RAM slack and file slack)(*No Answer*)

- . SIM Cards
  - a. file system

- b. Write Blockers
- c. **CORRECT:** Drive Slack

16. -subscribers identity module cards

-found most commonly in GSM devices

-microprocessor and from 16KB to 4MB EEPROM

-GSM refers to mobile phones as "mobile station" and divides a station into two parts: the sim card and the mobile equipment and common network in global networks

-portability of information makes SIM cards versatile(*No Answer*)

- . EEPROM
  - a. PDA's
  - b. **CORRECT:** SIM Cards
  - c. Drive Slack

17. -EnCase (E01)

-RAW (DD)

-SMART (S01)

-Sleuth Kit (AFF)(*No Answer*)

- . Five Major Categories
  - a. **CORRECT:** Different FTK Output Formats
  - b. EnCase Output Formats
  - c. Network Forensics

18. -How long a piece of information lasts on a system versus data that must be collected and preserved before its lost, corrupted, or backed up.

Order:

- 1-live network devices (switches/routers)
- 2-live computers/laptops (RAM and processes)
- 3-live other devices (smartphones, PDA's)

4-Devices/computers already OFF

5-Removable media/cables-adapters/documents(*No Answer*)

. **CORRECT:** Order of Volatility

- a. Partition
- b. Drive Slack
- c. Network Forensics

19. -devices are 'live' computers; traditional "stand-alone OFF computers" approach may be inadequate

-devices are connected to 'live' wireless networks; traditional "disconnect" or "segregate" approach network forensics may be inadequate

-devices lack hardware, software and operating system standardization; many variables affect forensic and eDiscovery techniques and analysis results.

-devices are dynamic in location; communications and operability; computers are mostly static.*(No Answer)*

. **CORRECT:** Challenges With Mobile Devices

- a. Write Blockers
- b. Network Forensics
- c. Acquisition Procedures for Mobile Devices

20. -analog

-digital personal communications service (PC's)

-third-generation (3G and 4G): increased bandwidth

\*continuing to evolve*(No Answer)*

. Data-hiding Techniques

- a. **CORRECT:** Three Generations of Mobile Phone Technology
- b. Order of Volatility
- c. Challenges With Mobile Devices

21. -identifies the subscriber to the network

-stores personal information

-stores address books and messages

-stores service-related information(*No Answer*)

- . Five Major Categories
  - a. ProDiscover Report
  - b. **CORRECT:** Additional SIM Card Purposes
  - c. SIM Cards

22. -hardware utilized for protecting source/hard drive from data alteration/tampering while collecting, preserving, and reviewing CSI.

-prevents operating systems and computer programs from making "writes" to the hard drive being acquired, examined, or analyzed.

-write blockers sits between the suspect/source drive and your analysis computer. (It is usually a hardware device, but software based write blockers may be utilized.*(No Answer)*

- . file system
  - a. Drive Slack
  - b. SIM Cards
  - c. **CORRECT:** Write Blockers

23. primary Windows based:

-EnCase

-Forensic Tool Kit (FTK)

-ProDiscover

-OSForensics

primarily Linux based:

-Sleuth Kit and Autopsy

-Helix

-Knoppix STD

-SMART(*No Answer*)

- . Computer Forensic and EDiscovery Tool Needs

- a. **CORRECT:** Computer Forensic Software Tools
  - b. Network Forensics
  - c. Mobile Forensics Equipment
24. -SIM card readers: a combination hardware/software device used to access the SIM card. You need to be in a forensic lab equip with appropriate anti-static devices.

-general forensic procedure for SIM cards:

- 1-remove the back panel of device
- 2-remove the battery
- 3-remove the SIM card
- 4-insert the SIM card into the card reader
- 5-extract relevant information

-a variety of SIM card readers are on the market: some are forensically sound and some are not

-documenting messages that haven't been read yet is critical: use a video camera to capture each screen, if data cannot be extracted with forensic hardware/software

-mobile forensic tools and utilities:

- Ramsey forensic text enclosure (hardware)
- SIM card reader (hardware)
- Paraben Device Seizure (software)
- BitPim (software)
- Susteen SecureView (software)
- EnCase and FTK (software)(*No Answer*)

- . file system
  - a. Network Forensics
  - b. **CORRECT:** Mobile Forensics Equipment
  - c. Computer Forensic Software Tools

25. -EX01

-E01 (Legacy)(*No Answer*)

- . **CORRECT:** EnCase Output Formats
  - a. Different FTK Output Formats
  - b. EEPROM

c. Network Forensics

26. look for versatility, flexibility, and robustness:

- Lab OS
- File System
- Automated Features
- Venders Reputation
- Acceptance by forensic community
- documented testing and validation

-Keep in mind what application files and operating system you'd be analyzing(*No Answer*)

. **CORRECT:** Computer Forensic and EDiscovery Tool Needs

- a. Mobile Forensics Equipment
- b. Types of The Formats ProDiscover Creates
- c. Computer Forensic Software Tools

Sr.No	Questions	Correct Answer
1.	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?  a) Confidentiality b) Integrity c) Authenticity d) Availability	C
2.	CIA triad is also known as _____  a) NIC (Non-repudiation, Integrity, Confidentiality) b) AIC (Availability, Integrity, Confidentiality) c) AIN (Availability, Integrity, Non-repudiation) d) AIC (Authenticity, Integrity, Confidentiality)	B
3.	_____ of information means, only authorised users are capable of accessing the information.  a) Confidentiality b) Integrity c) Non-repudiation d) Availability	A
4.	_____ means the protection of data from modification by unknown users.  a) Confidentiality b) Integrity c) Authentication d) Non-repudiation	B
5.	When you use the word _____ it means you are protecting your data from getting disclosed.  a) Confidentiality b) Integrity c) Authentication d) Availability	A
6.	When integrity is lacking in a security system, _____ occurs.  a) Database hacking b) Data deletion c) Data tampering d) Data leakage	C
7.	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?  a) They help understanding hacking better b) They are key elements to a security breach c) They help understand security and its components better d) They help to understand the cyber-crime better	C

8.	This helps in identifying the origin of information and authentic user. This referred to here as _____ a) Confidentiality b) Integrity c) Authenticity d) Availability	C
9.	Data _____ is used to ensure confidentiality. a) Encryption b) Locking c) Deleting d) Backup	A
10.	Data integrity gets compromised when _____ and _____ are taken control off. a) Access control, file deletion b) Network, file permission c) Access control, file permission d) Network, system	C
11.	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction. a) Network Security b) Database Security c) Information Security d) Physical Security	C
12.	From the options below, which of them is not a threat to information security? a) Disaster b) Eavesdropping c) Information leakage d) Unchanged default password	D
13.	Compromising confidential information comes under _____ a) Bug b) Threat c) Vulnerability d) Attack	B
14.	Which of the following are not security policies? a)Regulatory b)Advisory c)Availability d)User Policies	C

15.	Examples of User Policies is/are:  a)Password Policies b)Internet Usage c)System Use d)All of the above	D
16.	_____ Policy ensures that the organization is maintaining standards set by specific industry regulation.  a)Regulatory b)Advisory c)Availability d>User Policies	A
17.	_____ Policy is like standards rules and regulations set by the management to advise their employees on their activity or behavior  a)Regulatory b)Advisory c)Availability d>User Policies	B
18.	What defines the restrictions on employees such as usage?  a)Regulatory b)Advisory c)Availability d>User Policies	D
19.	The full form of OSI is OSI model is _____  a) Open Systems Interconnection b) Open Software Interconnection c) Open Systems Internet d) Open Software Internet	A
20.	In _____ layer, vulnerabilities are directly associated with physical access to networks and hardware.  a) physical b) data-link c) network d) application	A
21.	Loss of power and unauthorized change in the functional unit of hardware comes under problems and issues of the physical layer.  a) True b) False	A

22.	<p>Which of the following attack can actively modify communications or data?</p> <p>a)Both Active and Passive Attacks  b)Neither Active and Passive Attacks  c) Active Attacks  d)Passive Attacks</p>	C
23.	<p>OSI architecture mainly focuses on:</p> <p>1) Security Attack  2) Security Techniques/Mechanisms  3) Categories of Security Service</p> <p>a)1  b)1 &amp;3  c) 2&amp; 3  d)1,2,3</p>	D
24.	<p>IT security department must periodically check for security logs and entries made during office hours.</p> <p>a) True  b) False</p>	A
25.	<p>Release of Message Content and Traffic analysis are type of :</p> <p>a)Both Active and Passive Attacks  b)Neither Active and Passive Attacks  c) Active Attacks  d)Passive Attacks</p>	D
26.	<p>If communication between 2 people is overheard by a third person without manipulation of any data, it is called as:</p> <p>a) Release of Message Content-Passive Attack  b) Traffic analysis -Passive Attacks  c) Release of Message Content- Active Attacks  d) Traffic analysis -Active Attacks</p>	A
27.	<p>If communication between 2 people is overheard by a third person without extraction of any data, it is called as:</p> <p>a) Release of Message Content-Passive Attack  b) Traffic analysis -Passive Attacks  c) Release of Message Content- Active Attacks  d) Traffic analysis -Active Attacks</p>	D
28.	<p>No modification of data is a characteristic of</p> <p>a)Active Attack  b)Passive Attack</p>	A
29.	Which of the following are Active attack types	D

	a)Masquerade b)Replay c)Modification d>All of the above	
30.	_____ means when an attacker pretends to be authentic user  a)Masquerade b)Replay c)Modification d)Traffic analysis	A
31.	_____ attack is when original data is modified and malicious data is inserted  a)Masquerade b)Replay(Rewrite) c)Modification d)Traffic analysis	B
32.	When original data is changed to make it non-meaningful by attacker it is known as  a)Masquerade b)Replay c)Modification of Messages d)Traffic analysis	C
33.	Which is the type of attack when Network is made unavailable for user  a)Masquerade b)Replay c)Modification d)Denial of Service	D
34.	Modification of Data is done in:  a)Both Active and Passive Attacks b)Neither Active and Passive Attacks c) Active Attacks d)Passive Attacks	A
35.	The information that gets transformed in encryption is  a) Plain text b) Parallel text c) Encrypted text d) Decrypted text	A
36.	1. The process of transforming plain text into unreadable text.	B

	a) Decryption b) Encryption c) Network Security d) Information Hiding	
37.	A process of making the encrypted text readable again.  a) Decryption b) Encryption c) Network Security d) Information Hiding	A
38.	A unique piece of information that is used in encryption.  a) Cipher b) Plain Text c) Key d) Cipher	C
39.	Assurance that authentic user is taking part in communication is:  a)Authentication b)Authorization c)Access Control d)Auditing	A
40.	ATM pin while withdrawing money is an example of using:  a)Authentication b)Authorization c)Access Control d)Auditing	B
41.	Study of creating a d using encryption and decryption techniques.  a) Cipher b) Cryptography c) Encryption d) Decryption	B
42.	An attack in which the user receives unwanted amount of e-mails.  a) Smurfing b) Denial of service c) E-mail bombing d) Ping storm	C
43.	The process of disguising plaintext in such a way that its substance gets hidden (into what is known as cipher-text) is called	D

	a) cryptanalysis b) decryption c) reverse engineering d) encryption	
44.	In _____ same keys are implemented for encrypting as well as decrypting the information.  a) Symmetric Key Encryption b) Asymmetric Key Encryption c) Asymmetric Key Decryption d) Hash-based Key Encryption	A
45.	The procedure to add bits to the last block is termed as _____  a) decryption b) hashing c) tuning d) padding	D
46.	In asymmetric key cryptography, the private key is kept by _____  a) sender b) receiver c) sender and receiver d) all the connected devices to the network	B
47.	Cryptanalysis is used _____ a) to find some insecurity in a cryptographic scheme b) to increase the speed c) to encrypt the data d) to make new ciphers	A
48.	Conventional cryptography is also known as _____ or symmetric-key encryption.  a) secret-key b) public key c) protected key d) primary key	A
49.	_____ is the art & science of cracking the cipher-text without knowing the key.  a) Cracking b) Cryptanalysis c) Cryptography d) Crypto-hacking	B
50.	In _____ a sequence of actions is carried out on this block after a block of plain-text bits is chosen for generating a block of cipher-text bits.	A

	a) Block Cipher b) One-time pad c) Hash functions d) Vigenere Cipher	
--	---	--

This sheet is for 1 Mark questions								
S.r No	Question	Image	a	b	c	d	Correct Answer	
1	_____ is the practice and precautions taken to protect valuable information from unauthorized access, recording, disclosure or destruction.		a) Network Security a) Cloud workload protection platforms a) Bug	b) Database Security b) Cloud security protocols b) Threat	c) Information Security c) AWS c) Vulnerability	d) Physical Security d) One Drive d) Attack	c a b	
2	_____ platforms are used for safety and protection of information in the cloud.							
3	Compromising confidential information comes under _____							
4	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____		a) Cyber-crime a) Triangle	b) Cyber Attack b) Diagonal	c) System hijacking c) Ellipse	d) Digital crime d) Circle	b a	
5	The CIA triad is often represented by which of the following?							
6	Related to information security, confidentiality is the opposite of which of the following?		a) Closure	b) Disclosure	c) Disaster	d) Disposal	b	
7	When you use the word _____ it means you are protecting your data from getting disclosed.		a) Confidentiality a) Confidentiality	b) Integrity b) Integrity	c) Authentication c) Authentication	d) Availability d) Non-repudiation	a b	
8	_____ means the protection of data from modification by unknown users.							
9	_____ of information means, only authorized users are capable of accessing the information. This helps in identifying the origin of information and authentic user. This referred to here as		a) Confidentiality	b) Integrity	c) Non-repudiation	d) Availability	d	
10			a) Confidentiality a) Encryption	b) Integrity b) Locking	c) Authenticity c) Decryption	d) Availability d) Backup	c a	
11	Data _____ is used to ensure confidentiality.		a) Open System Interface	b) Open Systems Interconnections	c) Open Source Initiative	d) Open Standard Interconnections	b	
12	What does OSI stand for in the OSI Security Architecture?							
13	A company requires its users to change passwords every month. This improves the _____ of the network.		a) Performance	b) Reliability	c) Security	d) None of the above	c	
14	Release of message contents and Traffic analysis are two types of _____ attacks.		a) Active Attack a) Cipher script	b) Modification of Attack b) Cipher text	c) Passive attack c) Secret text	d) DoS Attack d) Secret script	c b	
15	The _____ is encrypted text.		NTLM	MITM	NetBIOS	SMB	b	
16	What type of attack uses a fraudulent server with a relay address?		3DES (TripleDES)	RSA	RC5	IDEA	b	
17	Which of the following Algorithms not belong to symmetric encryption							
18	Which is the largest disadvantage of the symmetric Encryption?		More complex and therefore Problem of the security	Less secure encryption function	Isn't used any more.		b	
19	In cryptography, what is cipher?							
20	In asymmetric key cryptography, the private key is kept by _____		algorithm for performing encryption	both algorithm for performing decryption	both algorithm for performing decryption	all the connected devices	a b	
21	Which one of the following algorithm is not used in asymmetric-key cryptography?		rsa algorithm	rsa and receiver	rsa and receiver	rsa algorithm	c	
22	In cryptography, the order of the letters in a message is rearranged by _____		transpositional ciphers	substitution ciphers	both transpositional ciphers and substitution ciphers	a quadratic ciphers	a	
23	What is data encryption standard (DES)?		block cipher	stream cipher	bit cipher	byte cipher	a	
24	A asymmetric-key (or public key ) cipher uses		1 key	2 key	3 key	4 key	b	
25	In asymmetric key cryptography, the two keys e and d, have special relationship to		others	data	keys	each other	d	
26	_____ is the process or mechanism used for converting ordinary plain text into garbled non-human readable text & vice-versa.		Malware Analysis	Exploit writing	Reverse engineering	Cryptography	d	
27	_____ is a means of storing & transmitting information in a specific format so that only those for whom it is planned can understand or process it.		Malware Analysis	Cryptography	Reverse engineering	Exploit writing	b	
28	4. Cryptographic algorithms are based on mathematical algorithms where these algorithms use _____ for a secure transformation of data.		secret key	external programs	add-ons	secondary key	a	
29	Conventional cryptography is also known as _____ or symmetric-key encryption.		secret-key decryption	public key hashing	protected key tuning	primary key padding	a d	
30	The procedure to add bits to the last block is termed as _____		10 symmetric key encryption algorithm	12	14	16	b	
31	How many rounds does the AES-192 perform?							
32	ECC encryption system is _____							

33	_____ function creates a message digest out of a message.		encryption	decryption	hash	none of the above	c
34	Extensions to the X.509 certificates were added in version _____		1 symmetric-key TRUE	2 asymmetric-key FALSE	either (a) or (b)	3 neither (a) nor (b)	c c b
35	A digital signature needs _____ system						a
36	"Elliptic curve cryptography follows the associative property."						a
37	ECC stands for						a
38	When a hash function is used to provide message authentication, the hash function value is referred to as						d
39	Message authentication code is also known as		Message Field	Message Digest	Message Score	Message Leap	b
40	The main difference in MACs and digital signatures is that, in digital signatures the hash value of the message is encrypted with a user's public key.		key code	hash code	keyed hash function	message key hash functio	b
41	The DSS signature uses which hash algorithm?		TRUE MD5 42 bytes	FALSE SHA-2 32 bytes	SHA-1 36 bytes	Does not use hash algorit	c
42	What is the size of the RSA signature hash after the MD5 and SHA-1 processing?					48 bytes	c
43	In the handshake protocol which is the message type first sent between client and server ?		server_hello	client_hello	hello_request	certificate_request	b
44	One commonly used public-key cryptography method is the _____ algorithm.		RSS	RAS	RSA	RAA	c
45	he _____ method provides a one-time session key for two parties.		Diffie-Hellman	RSA	DES	AES	a
46	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.		man-in-the-middle	ciphertext attack	plaintext attack	none of the above	a
47	In the handshake protocol which is the message type first sent between client and server ?		server_hello	client_hello	hello_request	certificate_request	b
48	1. VPN is abbreviated as _____		Visual Private Network	Virtual Protocol Netw	Virtual Private Network	Virtual Protocol Networki	c
49	_____ provides an isolated tunnel across a public network for sending and receiving data privately as if the computing devices were directly connected to the private network.		Visual Private Network	Virtual Protocol Netw	Virtual Protocol Networking	Virtual Private Network	d
50	Which of the statements are not true to classify VPN systems?						c
51	What types of protocols are used in VPNs?		Protocols used for tunnelling	Whether VPNs are pr	Securing the network from bc	Levels of security provide	c
52	VPNs uses encryption techniques to maintain security and privacy while communicating remotely via public network.		Application level protocols	Tunnelling protocols	Network protocols	Mailing protocols	a
53	There are _____ types of VPNs.		TRUE	False			a
54	_____ type of VPNs are used for home private and secure connectivity.		3 Remote access VPNs	2 Site-to-site VPNs	5 Peer-to-Peer VPNs	4 Router-to-router VPNs	b a
55	Which types of VPNs are used for corporate connectivity across companies residing in different geographical location?		Remote access VPNs	Site-to-site VPNs	Peer-to-Peer VPNs	Country-to-country VPNs	b
56	Site-to-Site VPN architecture is also known as _____		Remote connection based \	Peer-to-Peer VPNs	Extranet based VPN	Country-to-country VPNs	c
57	There are _____ types of VPN protocols.		3 Transport layer	4 Network layer	5 Application layer	6 Session layer	d b
58	IPSec is designed to provide security at the _____		Entire IP packet	IP header	IP payload	IP trailer	a
59	In tunnel mode, IPSec protects the _____		Browser security	Email security	FTP security	WiFi security	b
60	Pretty good privacy (PGP) is used in _____		Private data				
61	PGP encrypts data by using a block cipher called _____		International data	Internet data encryption	Local data encryption		
62	IKE creates SAs for _____.		encryption algorithm	algorithm	algorithm	algorithm	a
63	_____ provides either authentication or encryption, or both, for packets at the IP level.		SSL	IPSec	VP	c	
64	A _____ network is used inside an organization.		AH	PGP	SSL	b	
65	SSL provides _____.		private	public	semi-private	semi-public	a
			message integrity	confidentiality	compression	all of the above	d

66	IKE uses _____	Oakley	SKEME	ISAKMP	all of the above	d
67	In _____, there is a single path from the fully trusted authority to any certificate.	X509	PGP	KDC	none of the above	a
68	A _____ provides privacy for LANs that must communicate through the global Internet.	VPP	VNP	VNN	VPN	d
69	_____ uses the idea of certificate trust levels.	X509	PGP	KDC	none of the above	b
70	_____ provides privacy, integrity, and authentication in e-mail.	IPSec	SSL	PGP	none of the above	c
71	In _____, there can be multiple paths from fully or partially trusted authorities.	X509	PGP	KDC	none of the above	b
72	_____ provides authentication at the IP level.	AH	ESP	PGP	SSL	a
73	In _____, the cryptographic algorithms and secrets are sent with the message.	IPSec	SSL	TLS	PGP	d
74	_____ was invented by Phil Zimmerman.	IPSec	SSL	PGP	none of the above	c
75	ISAKMP stands for _____	Internet system Association and Key Management Packet	Interchange System Protocol	And Key Modeling Protocol	Internet Security Association and Key Modeling Protocol	b
76	PGP makes use of which cryptographic algorithm?	DES	AES	RSA	Rabin	c
77	What is the key size allowed in PGP?	1024-1056	1024-4056	1024-4096	1024-2048	c
78	In SSL, what is used for authenticating a message?	MAC (Message Access Code)	Authentication	MAC (Machine Authentication Code)	MAC (Machine Access Code)	b
79	S/MIME is abbreviated as _____	Secure/Multimedia Internet Mailing Extensions	Secure/Multipurpose Internet Mailing Extensions	Secure/Multimedia Internet Mail Extensions	Secure/Multipurpose Internet Mail Extensions	d
80	Security Measures Needed to protect _____ during their transmission	file	Data	packet	All of above	b
81	_____ means knowledge obtained from investigation, study , intelligence new ,facts .	Security	Data	Information	None of These	c
82	Prevention of the unauthorised used of Resources refers too?	Data Integrity	Data confidentiality	Acess Control	None of these	c
83	Protection against Denial by one of these parties in a communication refers to?	Non-Repudiation	Data integrity	Authentication	None of these	a
84	Which One of them is Passive attack?	Denial of Service	modify message in transit	Replay previous message	obtain message contain	d
85	What is lying of IP address called as?	IP Spoofing	IP Scamming	IP Lying	None Of theses	a
86	What is full form of DDoS?		Derived Denial of service	Distributed Denial of service	Denial of service	b
87	A hacker guessing suggested password to a program is call as?	Password Guessing	Dictionary Attack	Default password attack	None of these	c
88	Symmetric key encryption is also called as?	public key Encryption	Private Key Encryption	Both of these	None of these	b
89	Conversion of Cypher text to plain text?	Encryption	Decryption	Simple text	none of these	b
90	_____ is used to create the organisation's overall security program.	program policy	purpose	security	none of these	a
91	An act of protecting information from unauthorised discouser to an entity.-	intergrity	availability	confidentiality	none of these	c
92	A way to ensure that the entity is indeed what it claims to be.-	Authentication	Accountability	identification	security	a
93	The _____ model is 7 layer architecture where each layer is having some specific functionality to perform.	TCP	OSI	OIS	none of these	b
94	The full form of OSI is OSI model_____.	open systems interconnection	open software interconnection	open connection	open system internet	a
95	The technique in which when one character is replaced by another Character is called as?	Transposition	Substitution	Combinational	None of these	b
96	Conversion of plain text into Cipher text is called as _____.	Encryption	Decryption	Hidden Text	none of above	a
97	In Symmetric schemes requires both parties to share how many secret key?	one	two	three	four	a
98	Blum Blum Shub Generator is based on which Algorithm?	Private key	Public key	both a & b	none of these	b
99	In DES step both LPT and RPT undergoes in how much key Rounds?		8	16	32	64 b
100	What is the 4th step in DES Algorithm?	key transformation	S-box Substitution	P-box Permutation	Expansion permutation	c
101	In AES in which Round Subkeys are Generated from Original key for each round?	Key Expansion	Initial Round	Finale Round	none of these	a
102	AES stands for?	Authorized Encryption Standard	Advance Encryption Standard	Advance Encryption Strategy	none of these	b
103	Which of them is type of Cipher?	Stream Cipher	Block Cipher	both of Them	none of these	c
104	The message which is not understandable is called as?	Cipher Text	plain text	Hidden text	both a & c	a

105	The ___ is a polygraphic substitution cipher based on linear algebra.	Hill cipher	playfair cipher	Affine cipher	none of these	a
106	is the practice of concealing a message within another message,image or file.	steganography	cryptography	cipher	receiver	a
107	In asymmetric key cryptography, the private key is kept by _____	sender	receiver	sender and receiver	none of these	b
108	What is data encryption standard (DES)?	block cipher	stream cipher	bit cipher	byte cipher	a
109	In cryptography the original message before being transform is called	simple text	plain text	empty text	filled text	b
110	An asymmetric-key (or public-key) cipher uses	1 key	2 key	3 key	4 key	a
111	In Asymmetric-Key Cryptography, although RSA can be used to encrypt and decrypt actual messages, it is very slow if the message is	Short	Flat	Long	Thin	c
112	The man-in-the-middle attack can endanger the security of the Diffie-Hellman method if two parties are not	Authenticated	Joined	Submit	Separate	a
113	In Asymmetric-Key Cryptography, the two keys, e and d, have a special relationship to	other	Data	Keys	Each other	d
114	For RSA to work, the value of P must be less than the value of	p	q	n	r	c
115	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.	(p)/(q)	(p)(q)	(p-1)(q-1)	(p+1)(q+1)	c
116	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .	TRUE	FALSE			b
117	RSA is also a stream cipher like Merkel-Hellman.	TRUE	FALSE			a
118	USENET falls under which category of public key sharing?	public announcement	publicly available directory	public key authority	public key certificate	a
119	PGP makes use of which cryptographic algorithm?	RSA	AES	DES	ROBIN	a
120	Public key cryptography also called as _____	Asymmetric key cryptography	Symmetric key cryptography	Both a and b	None of the above	a
121	ECC stands for	Elliptic Curve Cryptography	Elliptic Cryptography Curve	Error Correcting Code	None of the above	a
122	Diffie-Hellman algorithm is widely known as _____	Key exchange algorithm	key agreement algorithm	only a	Both a and b	d
123	Hash function is used for _____	Message authentication	Digital Signature	Both a and b	only a	c
124	RSA algorithm is best example of _____	Asymmetric key cryptography	Symmetric key cryptography	Elliptic Curve Cryptography	All of the above	a
125	IPSec is designed to provide security at the _____	Transport layer	Network layer	Application layer	Session layer	b
126	In tunnel mode, IPSec protects the _____	Entire IP packet	IP header	IP payload	IP trailer	a
127	HTTPS is abbreviated as _____	Hypertexts Transfer Protocol Secured	Secured Hyper Text Transfer Protocol	Hyperlinked Text Transfer Protocol Secured	Hyper Text Transfer Protocol Secure	d
128	An attempt to make a computer resource unavailable to its intended users is called _____	Denial-of-service attack	Virus attack	Worms attack	Botnet process	a
129	SSL primarily focuses on _____	integrity and authenticity	integrity and non-repudiation	authenticity and privacy	confidentiality and integrity	a
130	Pretty good privacy (PGP) is used in _____	Browser security	Email security	WiFi security	FTP security	b
131	is used for encrypting data at network level	IPSec	HTTPS	SMTP	S/MIME	a
132	WPA2 is used for security in _____	Ethernet	Wi-Fi	Bluetooth	E-mail	b
133	Which of the following is not a strong security protocol	SSL	HTTPL	SMTP	SFTP	c
134	TSL (Transport Layer Security) is a cryptographic protocol used for securing HTTP/HTTPS based connection.	TRUE	FALSE			a
135	IPSec operates in..... different modes		3	2	4	5 b
136	length of the IPv4 address is ....	32 bits	64 bits	16 bits	128 bit	a
137	Internet Key Exchange has .... phases and modes of operations		4	3	2	5 c
138	PGP is abbreviated as _____	Pretty Good Privacy	Pretty Good Policy	Policy Good Privacy	Pretty Good Protection	a
139	SET stands for _____	Set Electronic Transaction	Secure Electronic Transaction	Simple Electronic Transaction	none of the above	b
140	Transport layer Protocol consists of ... main components		2	1	3	4 a
141	length of the IPv6 address is ....	32 bits	64 bits	16 bits	128 bit	b
142	SSI provides _____.	message integrity	confidentiality	compression	all of the above	d
143	IPSec provides ....protocols for network layer		7	3	1	4 a
144	length of the IPv6 header is....	64 bits	16 bits	32 bits	8 bits	c

1	A practice of choosing a key that is extremely random and the algorithm should use the full range of the key+space is called _____  a. Cipher management b.Key combination c.Key management d.none of above	c
2	Public key cryptography is also called as _____  a.Asymmetric key Cryptography b.Symmetric Key Cryptography c.Hash key d.None of above	a
3	RSA algorithm is the best example of _____  a.Asymmetric key Cryptography b.Symmetric Key Cryptography c.Hash key Cryptography d.None of above	a
4	For RSA to work the value of P must be less than  a. p b. q c. n d. r	c
5	In symmetric key cryptography, key used by sender and receiver is  a. shared b. different c. two keys are used d. none	a
6	RSA stands for:  a. Rivest Shamir Aldeman b. Rock Shane and Amozen c. Rivest Shane and Amozen d. Rock Shamir and Adleman	a
7	Which of the following is also known as key exchange algorithm? a. RSA. b. DES.	c

	c. DH. d. ECC.	
8	In which of the following algorithm MiM attack occurs?  a. DES. b. Triple DES. c. DH. d. RSA.	c
9	In MD5 Message Digest Algorithm takes an input of arbitrary length and _____ message digest is produced.  a. 64 bits b. 128 bits c. 160 bits d. 256 bits	b
10	The input message in MD5 algorithm is produced in _____  a. 128 bit blocks b. 256 bit blocks c. 64 bit blocks d. 512 bit blocks	d
11	SHA-1 produces an output of _____ message digest  a. 64 bits b. 128 bits c. 160 bits d. 256 bits	c
12	The man-in-the-middle attack can endanger the security of the Diffie Hellman method if two parties are not  a. Authenticated b. Joined c. Submit d. Separate	a
13	Function provided by key storage  a. Operational Storage b. Backup Storage c. Archive Storage d. All of above	d

14	ECC stands for  a. Elliptic Curve Cryptography b. Euler Curve Cryptography c. Euclidean Curve Cryptography d. Eclipse Curve Cryptography	a
15	Size of key used in ECC is  a. 256 bits b. 128 bits c. 512 bits d. 160 bits	d
16	In which attack original data gets modified and new malicious code is retransmitted again and again to receiver  a. Masquerade Attack b. Replay attack (Rewrite) c. Non Repudiation d. Traffic Analysis	b
17	Which of the following is not a Authentication method  a. Hash function b. Message encryption c. Message Authentication Code (MAC) d. Key Generation	d
18	Which algorithm uses big-endian method to represent the message  a. SHA-1 b. MD5 c. Both a and b d. None of above	a
19	Which algorithm uses little-endian method to represent the message  a. SHA-1 b. MD5 c. Both a and b d. None of above	b
20	SHA has how many rounds  a. 64 b. 4	c

	c. 20 d. 10	
21	What is used instead of passwords during login session and then can be used in any Kerberos services  a. Key b. Tickets c. Header d. Certificate	b
22	What will be the value of n according to RSA algorithm if the two prime number a and b are given has 3 and 5  a. 8 b. 15 c. 2 d. 3	b
23	The attack which in which Hacker tries all possible private keys is known as  a. Brute force attack b. Mathematical attacks c. Timing attacks d. Chosen Cipher text attack	a
24	he attack which in which Hacker tries to attack on the properties of RSA algorithm is known as  a. Brute force attack b. Mathematical attacks c. Timing attacks d. Chosen Cipher text attack	d
25	For given parameters $P = 3$ , $Q = 19$ , $e=7$ , $d=31$ using RSA algorithm encrypt message $M = 6$ find the value of Cipher text (C)  a. 3 b. 15 c. 9 d. 12	c
26.	In public key cryptosystem _____ keys are used for encryption and decryption.	2

	1) Same 2) Different 3) Encryption Keys 4) None of the mentioned	
27.	Private key algorithm is used for _____ encryption and public key algorithm is used for _____ encryption. 1) Messages, session key 2) Session key, messages 3) Can be used for both 4) None of the mentioned	1
28.	Which has a key length of 128 bits? 1) IDEA 2) Triple-DES 3) IDEA & Triple-DES 4) None of the mentioned	1
29.	Which algorithm can be used to sign a message? 1) Public key algorithm 2) Private key algorithm 3) Public & Private key algorithm 4) None of the mentioned	1
30.	Examples of hash functions are 1) MD5 2) SHA-1 3) MD5 & SHA-1 4) None of the mentioned	3
31.	Encryption transformations are known as 1) Diffusion 2) Confusion 3) Diffusion & Confusion 4) None of the mentioned	3
32.	In transposition, the plaintext letters are 1) Substituted 2) Rearranged 3) Removed 4) None of the mentioned	2
33.	RSA is also a stream cipher like Merkle-Hellman. 1) True 2) False	1

34.	<p>In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'?</p> <ol style="list-style-type: none"> <li>1) p and q should be divisible by <math>\Phi(n)</math></li> <li>2) p and q should be co-prime</li> <li>3) p and q should be prime</li> <li>4) p/q should give no remainder</li> </ol>	3
35.	<p>For <math>p = 11</math> and <math>q = 19</math> and choose <math>e=17</math>. Apply RSA algorithm where message=5 and find the cipher text.</p> <ol style="list-style-type: none"> <li>1) C=80</li> <li>2) C=92</li> <li>3) C=56</li> <li>4) C=23</li> </ol>	1
36.	<p>For <math>p = 11</math> and <math>q = 19</math> and choose <math>d=17</math>. Apply RSA algorithm where Cipher message=80 and thus find the plain text.</p> <ol style="list-style-type: none"> <li>1) 54</li> <li>2) 43</li> <li>3) 5</li> <li>4) 24</li> </ol>	3
37.	<p>For <math>p = 11</math> and <math>q = 17</math> and choose <math>e=7</math>. Apply RSA algorithm where PT message=88 and thus find the CT.</p> <ol style="list-style-type: none"> <li>1) 23</li> <li>2) 64</li> <li>3) 11</li> <li>4) 54</li> </ol>	3
38.	<p>For <math>p = 11</math> and <math>q = 17</math> and choose <math>e=7</math>. Apply RSA algorithm where Cipher message=11 and thus find the plain text.</p> <ol style="list-style-type: none"> <li>1) 88</li> <li>2) 122</li> <li>3) 143</li> <li>4) 111</li> </ol>	1
39.	<p>The _____ method provides a one-time session key for two parties.</p> <ol style="list-style-type: none"> <li>1) Diffie-Hellman</li> <li>2) RSA</li> <li>3) DES</li> <li>4) AES</li> </ol>	1

40.	Which one of the following algorithm is not used in asymmetric-key cryptography? 1.) RSA algorithm 2.) diffie-hellman algorithm 3.) electronic code book algorithm 4.) none of these	3
41.	When a hash function is used to provide message authentication, the hash function value is referred to as 1) Message Field 2) Message Digest 3) Message Score 4) Message Leap	2
42.	Message authentication code is also known as 1) key code 2) hash code 3) keyed hash function 4) message key hash function	3
43.	What is the number of round computation steps in the SHA-256 algorithm? 1) 80 2) 76 3) 64 4) 70	3
44.	In SHA-512, the message is divided into blocks of size ____ bits for the hash computation. a) 1024 b) 512 c) 256 d) 1248	1
45.	The message in SHA-512 is padded so that it's length is 1) 832 mod 1024 2) 768 mod 1024 3) 960 mod 1024 4) 896 mod 1024	4
46.	Which one of the following is not an application hash functions? 1) One-way password file 2) Key wrapping 3) Virus Detection 4) Intrusion detection	2

47.	The main difference in MACs and digital signatures is that, in digital signatures the hash value of the message is encrypted with a user's public key. 1) True 2) False	2
48.	Hashed message is signed by sender using 1) His public Key 2) His private Key 3) Receivers public Key 4) Receivers private key	1
49.	The responsibility of certification authority for digital signature is to authenticate the 1) hash function used 2) private key of subscribers 3) public key of subscribers 4) key used in DES	3
50.	Encryption can be done 1) On any textual data 2) only on ASCII coded data 3) on any bit of string 4) only on mnemonic data	3



**International Institute of Information Technology,  
Pune - 411057**  
**Department of Computer Engineering**  
**Semester -II (AY 2019-20)**

**Question Bank - Unit 4**

**Subject: ICS**

**Date: Feb. 22, 2020**

**Class: BE (Comp)**

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**Unit-4**

- 1) What are strengths of IPSec ?
- 2) Enlist few applications of IPSec.
- 3) What are different security services offered by IPSec ?
- 4) Discuss transport mode and tunnel mode of IPSec.
- 5) Why is Authentication Header used ?
- 6) Which security services are provided by Encapsulating Security Payload (ESP) protocol ?
- 7) Discuss transport mode and tunnel mode in ESP.
- 8) Describe ESP header.
- 9) Describe the working of ISAKMP payloads.
- 10) Discuss the OAKLEY key determination protocol.
- 11) Compare IP\_V4 and IP\_V6.
- 12) Explain the addressing in IP\_V6.
- 13) Explain the header format of IP\_V6.
- 14) What is Secured Socket Layer (SSL) ? What are the different protocols used in SSL ?
- 15) Explain SSL connection and session.
- 16) Explain the working of PGP ? What are its applications ?
- 17) What are the security services provided by PGP ?
- 18) Explain working of S/MIME with secrecy and authentication.
- 19) Explain the operation of Secure Electronic Transaction (SET) protocol.
- 20) What is VPN ? Explain types of VPN.

**Subject In-charge**

**Prof. Ravindra P. Joshi**



# International Institute of Information Technology

## Department of Computer Engineering

### Information & Cyber Security (ICS)

#### Multiple Choice Question Bank (Units:-4, 5, 6)

Class: B.E. (Comp)

Date: 30/04/2020

Select the most appropriate answer from the given choices:

#### Unit-4:- Security Requirements

- 1) There are \_\_\_\_\_ different versions of IP popularly used.
  - a) 2
  - b) 3
  - c) 4
  - d) 5
  
- 2) \_\_\_\_\_ is an attack where the attacker is able to guess together with the sequence number of an in progress communication session & the port number.
  - a) TCP Spoofing
  - b) TCP Blind Spoofing
  - c) IP Spoofing
  - d) IP Blind Spoofing
  
- 3) \_\_\_\_\_ is an attack technique where numerous SYN packets are spoofed with a bogus source address which is then sent to an inundated server.
  - a) SYN flooding attack
  - b) ACK flooding attack
  - c) SYN & ACK flooding attack
  - d) Packet flooding attack
  
- 4) Which of them is not an attack done in the network layer of the TCP/IP model?
  - a) MITM attack
  - b) DoS attack
  - c) Spoofing attack
  - d) Shoulder surfing
  
- 5) Which of them is not an appropriate method of router security?
  - a) Unused ports should be blocked
  - b) Unused interfaces and services should be disabled
  - c) Routing protocol needs to be programmed by security experts
  - d) Packet filtering needs to be enabled
  
- 6) Which two protocols are used in the Transport layer of the TCP/IP model?
  - a) UDP and HTTP

- b) TCP and UDP
  - c) HTTP and TCP
  - d) ICMP and HTTP
- 7) Which of the protocol is not used in the network layer of the TCP/IP model?
- a) ICMP
  - b) IP
  - c) IGMP
  - d) HTTP
- 8) In IPsec, integrity to the message is provided using \_\_\_\_\_.
- a) Encryption algorithm
  - b) Digital signature
  - c) Hashing algorithm
  - d) None of the above
- 9) Which of the following standards represent the overview of IPsec architecture ?
- a) RFC 2401
  - b) RFC 2402
  - c) RFC 2406
  - d) RFC 2408
- 10) The address size of IP\_V6 is \_\_\_\_\_.
- a) 32 bits
  - b) 64 bits
  - c) 128 bits
  - d) 256 bits
- 11) The address size of IP\_V4 is \_\_\_\_\_.
- a) 32 bits
  - b) 64 bits
  - c) 128 bits
  - d) 256 bits
- 12) In IP\_V6, total number of addresses available are \_\_\_\_\_.
- a)  $2^{32}$
  - b)  $2^{64}$
  - c)  $2^{128}$
  - d)  $2^{256}$
- 13) IPSec is designed to provide security at the \_\_\_\_\_.
- a) Transport layer
  - b) Network layer
  - c) Application layer
  - d) Session layer
- 14) In tunnel mode, IPsec protects the \_\_\_\_\_.
- a) Entire IP packet
  - b) IP header
  - c) IP payload

d) IP trailer

15) Which component is included in IP security?

- a) Authentication Header (AH)
- b) Encapsulating Security Payload (ESP)
- c) Internet Key Exchange (IKE)
- d) All of the above

16) Extensible authentication protocol is authentication framework frequently used in \_\_\_\_\_.

- a) Wired personal area network
- b) Wireless networks
- c) Wired local area network
- d) Wired metropolitan area network

17) Pretty good privacy (PGP) is used in \_\_\_\_\_.

- a) Browser security
- b) Email security
- c) FTP security
- d) Wi-Fi security

18) PGP encrypts data by using a block cipher called \_\_\_\_\_.

- a) International Data Encryption Algorithm (IDEA)
- b) Private data encryption algorithm
- c) Internet data encryption algorithm
- d) Local data encryption algorithm

19) Wireshark is a \_\_\_\_\_ tool.

- a) Network protocol analysis
- b) Network connection security
- c) Connection analysis
- d) Defending malicious packet-filtering

20) Aircrack-ng is used for \_\_\_\_\_

- a) Firewall bypassing
- b) Wi-Fi attacks
- c) Packet filtering
- d) System password cracking

21) \_\_\_\_\_ is a popular tool used for network analysis in multiprotocol diverse network.

- a) Snort
- b) SuperScan
- c) Burp Suit
- d) EtterPeak

22) Which one of the following is NOT a higher -layer SSL protocol?

- a) Alert Protocol
- b) Handshake Protocol
- c) Alarm Protocol
- d) Change Cipher Spec Protocol

23) Which one of the following is not a session state parameter?

- a) Master Secret
- b) Cipher Spec
- c) Peer Certificate
- d) Server Write Key

24) In the SSL Protocol, each upper layer message if fragmented into a maximum of \_\_\_\_\_ bytes.

- a)  $2^{16}$
- b)  $2^{32}$
- c)  $2^{14}$
- d)  $2^{12}$

25) The full form of SSL is \_\_\_\_\_.

- a) Serial Session Layer
- b) Secure Socket Layer
- c) Session Secure Layer
- d) Series Socket Layer

26) Which protocol is used to convey SSL related alerts to the peer entity?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

27) Which protocol consists of only 1 bit?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

28) Which protocol is used for the purpose of copying the pending state into the current state?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

29) Which of the following protocol is NOT a part of a set of SSL protocol ?

- a) Record protocol
- b) Change Cipher Spec protocol
- c) ESP protocol
- d) Alert protocol

30) The SSL protocol does not provide \_\_\_\_\_.

- a) Data confidentiality
- b) Authentication
- c) Data privacy
- d) Data integrity

31) The first phase of Handshake protocol does not establish \_\_\_\_\_ component

- a) Method of key exchange
- b) Digital signature algorithm

- c) Encryption algorithm  
d) Hashing algorithm
- 32) \_\_\_\_\_ is a famous technological medium for the spread of malware, facing problems of spam, & phishing attacks.  
 a) Cloud  
b) Pen drive  
c) Website  
d) Email
- 33) Which of them is not a major way of stealing email information?  
 a) Stealing cookies  
b) Reverse Engineering  
c) Password Phishing  
d) Social Engineering
- 34) Which of them is NOT a proper method for email security?  
 a) Use Strong password  
b) Use email Encryption  
c) Spam filters and malware scanners  
d) Click on unknown links to explore
- 35) The stored cookie which contains all your personal data about that website can be stolen away by \_\_\_\_\_ using \_\_\_\_\_ or trojans.  
 a) attackers, malware  
b) hackers, antivirus  
c) penetration testers, malware  
d) penetration testers, virus

#### **Solution Key: Unit-4**

1)	a	2)	b	3)	a	4)	d	5)	c	6)	b
7)	d	8)	c	9)	a	10)	c	11)	a	12)	c
13)	b	14)	a	15)	d	16)	b	17)	b	18)	a
19)	a	20)	b	21)	d	22)	c	23)	d	24)	c
25)	b	26)	b	27)	d	28)	d	29)	c	30)	a
31)	b	32)	d	33)	b	34)	d	35)	a		

#### **Unit-5:- Firewall and Intrusion**

- 1) An advantage of anomaly detection system is \_\_\_\_\_.  
 a) Rules are simple and easy to define  
b) The engine can scale as the rule set grows  
c) Protocols can be analysed easily  
d) Its false positive rate is lower
- 2) A false positive rate can be defined as \_\_\_\_\_.

- a) An alarm that indicates an attempt of an attack on a system, which is actually a legitimate network traffic or behaviour
  - b) An alarm that indicates an attempt of an attack on a system, which is not running on a network
  - c) The lack of an alarm for an attack
  - d) Both a and b
- 3) Which of the following is NOT a type of an IDS ?
- a) Anomaly-based detection
  - b) Signature-based detection
  - c) Zone-based detection
  - d) Misuse-based detection
- 4) Which of the following is a weakness of the host-based IDS ?
- a) Less accuracy
  - b) System specific activity
  - c) Requirement of more hardware
  - d) Very slow at detection
- 5) Which of the following is a weakness of the network-based IDS ?
- a) Increased cost of ownership
  - b) Malicious intent detection
  - c) Additional hardware is required
  - d) Poor real time detection and response
- 6) If the data stored in the \_\_\_\_\_ is not encrypted, then after cookie stealing, attackers can see information such as username and password stored by the cookie.
- a) Memory
  - b) Quarantine
  - c) Cookies
  - d) Hard drive
- 7) Which of the following is a non-technical type of intrusion or attack technique?
- a) Reverse Engineering
  - b) Malware Analysis
  - c) Social Engineering
  - d) Malware Writing
- 8) \_\_\_\_\_ is the technique used for tricking users to disclose their username and passwords through fake pages.
- a) Social Engineering
  - b) Phishing
  - c) Cookie Stealing
  - d) Banner Grabbing
- 9) Using email hacking illicit hackers can send & spread \_\_\_\_\_ virus \_\_\_\_\_ and spam emails.
- a) Trojans, redirected malicious URLs
  - b) Antivirus, patches
  - c) Cracked software, redirected malicious URLs

- d) Malware, security patches

10) Unsolicited Bulk E-mails (UBI) are called \_\_\_\_\_

- a) SMS
- b) MMS
- c) Spam emails
- d) Malicious emails

11) Fraudulent email messages are some fake email messages that seem legitimate which asks for your confidential bank details such as \_\_\_\_\_ details \_\_\_\_\_ and passwords.

- a) Credit card, antivirus name
- b) Credit card, login ID
- c) Cell phone, antivirus name
- d) Car model, account ID

12) Even with two-factor authentication, users may still be vulnerable to \_\_\_\_\_ attacks.

- a) Radiant
- b) Cross attack
- c) Scripting
- d) Man-in-the-middle

13) In Denial-of-service attacks, typically against the targeted websites \_\_\_\_\_ is used.

- a) Zombie
- b) Trojan
- c) Virus
- d) Worm

14) A \_\_\_\_\_ attaches itself to executable files. When the infected program is executed, it replicates itself by finding other executable files to infect.

- a) Macro virus
- b) Stealth virus
- c) Polymorphic virus
- d) Parasitic virus

15) A type of virus explicitly designed to hide itself from detection by antivirus software is \_\_\_\_\_.

- a) Macro virus
- b) Stealth virus
- c) Polymorphic virus
- d) Parasitic virus

16) \_\_\_\_\_ is a malicious code that is installed secretly on another Internet attached computer and then attacks are launched using that computer.

- a) Zombie
- b) Virus
- c) Trap doors
- d) Worm

17) Bots have the ability to \_\_\_\_\_.

- a) Log keystrokes

- b) Capture and analyse the packets
- c) Collect passwords
- d) All of the above

18) Which of the following is NOT true about digital immune system ?

- a) It makes the system highly scalable
- b) It helps in reducing false positives in the system
- c) It provides fast analysis of the threats
- d) The detection rate for new or unknown threats is low

19) Which of the following is NOT true about e-mail bombing ?

- a) It is sent to consume system and network resources
- b) It results in the denial-of-service
- c) Multiple accounts at the target site may be abused
  - i. A and b above
  - ii. B and c above
  - iii. A and c above
  - iv. A, B and C above

20) Which of the following statements is TRUE about a worm ?

- a) It is a program that never copies itself into a computer's memory until no more space is left.
- b) It is a program that replicates itself
- c) It attaches itself to e-mails
- d) It corrupts boot sector instructions

21) Firewall protects the network against \_\_\_\_\_.

- a) Virus
- b) Fire
- c) Unauthenticated interactive log-ins from the outside world
- d) Connecting to and from the outside world

22) Which of the following is NOT true about the Firewall ?

- a) It blocks unauthorised traffic
- b) Traffic must only be allowed to pass from inside to outside the firewall
- c) Firewall should be immune to penetration
- d) It hides internal computers or networks which are vulnerable

23) Network layer firewall has two sub-categories as \_\_\_\_\_

- a) State full firewall and stateless firewall
- b) Bit oriented firewall and byte oriented firewall
- c) Frame firewall and packet firewall
- d) Network layer firewall and session layer firewall

24) A firewall is installed at the point where the secure internal network and untrusted external network meet which is also known as \_\_\_\_\_

- a) Choke point
- b) Meeting point
- c) Firewall point
- d) Secure point

25) A proxy firewall filters at \_\_\_\_\_

- a) Physical layer
- b) Data link layer
- c) Network layer
- d) Application layer

26) Network layer firewall works as a \_\_\_\_\_

- a) Frame filter
- b) Packet filter
- c) Content filter
- d) Virus filter

27) What is one advantage of setting up a DMZ with two firewalls?

- a) You can control where traffic goes in three networks
- b) You can do stateful packet filtering
- c) You can do load balancing
- d) Improved network performance

28) A stateful firewall maintains a \_\_\_\_\_ which is a list of active connections.

- a) Routing table
- b) Bridging table
- c) State table
- d) Connection table

29) A firewall needs to be \_\_\_\_\_ so that it can grow proportionally with the network that it protects.

- a) Robust
- b) Expansive
- c) Fast
- d) Scalable

30) What are the major components of the intrusion detection system?

- a) Analysis Engine
- b) Event provider
- c) Alert Database
- d) All of the mentioned

31) What are the different ways to classify an IDS?

- a) anomaly detection
- b) signature based misuse
- c) stack based
- d) all of the mentioned

32) What are the different ways to classify an IDS?

- a) Zone based
- b) Host & Network based
- c) Network & Zone based
- d) Level based

33) What are the characteristics of anomaly based IDS?

- a) It models the normal usage of network as a noise characterization
- b) It doesn't detect novel attacks
- c) Anything distinct from the noise is not assumed to be intrusion activity
- d) It detects based on signature

34) What are the characteristics of signature based IDS?

- a) Most are based on simple pattern matching algorithms
- b) It is programmed to interpret a certain series of packets
- c) It models the normal usage of network as a noise characterization
- d) Anything distinct from the noise is assumed to be intrusion activity

35) What are the drawbacks of signature based IDS?

- a) They are unable to detect novel attacks
- b) They suffer from false alarms
- c) They have to be programmed again for every new pattern to be detected
- d) All of the mentioned

## **Unit-6:- Confidentiality and Cyber Forensic**

1) The main objective of computer forensics is \_\_\_\_\_.

- a) Preservation of the data
- b) Identification of the data
- c) Extraction of the information
- d) All of the above

2) Which of the following statements are TRUE about computer forensics ?

- a) It is concerned with confidentiality
- b) It is concerned with integrity
- c) It is concerned with acquisition, preservation and analysis of the digital evidences
  - i. Only a above
  - ii. Only a and b above
  - iii. Only c above
  - iv. All a, b and c above

3) During investigation of the crime, the experts of computer forensics \_\_\_\_\_.

- a) Perform the task of identification
- b) Perform the task of preservation
- c) Perform the task of extraction
- d) Perform the task of interpretation
  - i. Only a and b above
  - ii. Only a and c above
  - iii. Only a and d above
  - iv. All of the above

4) Which of the following is not an example of privacy-browser?

- a) Tor
- b) Brave
- c) Epic
- d) Opera

- 5) \_\_\_\_\_ allow its users to attach to the internet via a remote or virtual server which preserves privacy.
- a) Cookie removers
  - b) VPNs
  - c) Tor browser
  - d) Private Search Engines
- 6) \_\_\_\_\_ deals with the protection of an individual's information which is implemented while using the Internet on any computer or personal device.
- a) Digital agony
  - b) Digital privacy
  - c) Digital secrecy
  - d) Digital protection
- 7) Which of the following browser is used for Privacy purpose?
- a) Chrome
  - b) Firefox
  - c) Opera
  - d) Tor
- 8) The \_\_\_\_\_ transferred between your device & the server is securely encrypted if you are using VPNs.
- a) Data
  - b) Virus
  - c) Music files
  - d) Document files
- 9) Which of the following is not a type of Cybercrime?
- a) Data theft
  - b) Forgery
  - c) Damage to data and systems
  - d) Installing antivirus for protection
- 10) . Which of the following is not a type of peer-to-peer Cybercrime?
- a) Phishing
  - b) Injecting Trojans to a target victim
  - c) MiTM
  - d) Credit card details leak in deep web
- 11) Which of the following is not an example of a computer as weapon Cybercrime?
- a) Credit card fraudulent
  - b) Spying someone using keylogger
  - c) IPR Violation
  - d) Pornography
- 12) Which of the following is not done by cyber criminals?
- a) Unauthorized account access
  - b) Mass attack using Trojans as botnets
  - c) Email spoofing and spamming

d) Report vulnerability in any system

13) What is the name of the IT law that India is having in the Indian legislature?

- a) India's Technology (IT) Act, 2000
- b) India's Digital Information Technology (DIT) Act, 2000
- c) India's Information Technology (IT) Act, 2000
- d) The Technology Act, 2008

14) In which year India's IT Act came into existence?

- a) 2000
- b) 2001
- c) 2002
- d) 2003

15) What is the full form of ITA-2000?

- a) Information Tech Act -2000
- b) Indian Technology Act -2000
- c) International Technology Act -2000
- d) Information Technology Act -2000

16) Under which section of IT Act, stealing any digital asset or information is written a Cybercrime.

- a) 65
- b) 65-D
- c) 67
- d) 70

17) What is the punishment in India for stealing computer documents, assets or any software's source code from any organization, individual, or from any other means?

- a) 6 months of imprisonment and a fine of Rs. 50,000
- b) 1 year of imprisonment and a fine of Rs. 100,000
- c) 2 years of imprisonment and a fine of Rs. 250,000
- d) 3 years of imprisonment and a fine of Rs. 500,000

18) What is the updated version of the IT Act, 2000?

- a) IT Act, 2007
- b) Advanced IT Act, 2007
- c) IT Act, 2008
- d) Advanced IT Act, 2008

19) In which year the Indian IT Act, 2000 got updated?

- a) 2006
- b) 2008
- c) 2010
- d) 2012

20) What type of cyber-crime, its laws and punishments does section 66 of the Indian IT Act holds?

- a) Cracking or illegally hack into any system
- b) Putting antivirus into the victim
- c) Stealing data
- d) Stealing hardware components

## Solution Key: Unit-4

2)	a	2)	b	3)	a	4)	d	5)	c	6)	b
7)	d	8)	c	9)	a	10)	c	11)	a	12)	c
13)	b	14)	a	15)	d	16)	b	17)	b	18)	a
19)	a	20)	b	21)	d	22)	c	23)	d	24)	c
25)	b	26)	b	27)	d	28)	d	29)	c	30)	a
31)	b	32)	d	33)	b	34)	d	35)	a		

## **Solution Key:** Unit-5

1)	b	2)	d	3)	c	4)	d	5)	c	6)	c
7)	c	8)	b	9)	a	10)	c	11)	b	12)	d
13)	a	14)	d	15)	c	16)	a	17)	d	18)	d
19)	d	20)	b	21)	c	22)	b	23)	a	24)	a
25)	d	26)	b	27)	c	28)	a	29)	b	30)	d
31)	d	32)	b	33)	a	34)	a	35)	d		

## **Solution Key:** Unit-6

1)	d	2)	iii	3)	iv	4)	d	5)	b	6)	b
7)	d	8)	a	9)	d	10)	d	11)	b	12)	d
13)	c	14)	a	15)	d	16)	a	17)	d	18)	c
19)	b	20)	a								



**International Institute of Information Technology**

**Department of Computer Engineering**

**Information & Cyber Security (ICS)**

**Multiple Choice Question Bank (Units:-1, 2, 3)**

**Class: B.E. (Comp)**

**Date: 29/04/2020**

**Select the most appropriate answer from the given choices:**

**Unit-1:- Security Basics**

- 1) When you use the word \_\_\_\_\_ it means you are protecting your data from getting disclosed.
  - a) Confidentiality
  - b) Integrity
  - c) Authentication
  - d) Availability
  
- 2) Which of the following is a passive attack ?
  - a) Modify
  - b) Masquerade
  - c) Denial of Service
  - d) Traffic analysis
  
- 3) \_\_\_\_\_ service ensures that a message was received by the receiver from the actual sender and not from the attacker.
  - a) Confidentiality
  - b) Access Control
  - c) Non-repudiation
  - d) Authentication
  
- 4) Which of the following is an active attack ?
  - a) Release of message contents
  - b) Traffic analysis
  - c) Modify
  - d) Denial of Service
  - e) a and b
  - f) c and d
  
- 5) Which of the following attacks is not a threat to the integrity of data ?
  - a) Reply
  - b) Snooping
  - c) Masquerade
  - d) Modification of message contents

- 6) \_\_\_\_\_ means the protection of data from modification by unknown users.
- a) Confidentiality
  - b) Integrity
  - c) Authentication
  - d) Non-repudiation
- 7) When integrity is lacking in a security system, \_\_\_\_\_ occurs.
- a) Database hacking
  - b) Data deletion
  - c) Data tampering
  - d) Data leakage
- 8) \_\_\_\_\_ of information means, only authorised users are capable of accessing the information.
- a) Confidentiality
  - b) Integrity
  - c) Non-repudiation
  - d) Availability
- 9) Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
- a) They help understand hacking better
  - b) They are key elements to a security breach
  - c) They help understand security and its components better
  - d) They help to understand the cyber-crime better
- 10) Which of these is not a proper method of maintaining confidentiality?
- a) Biometric verification
  - b) ID and password based verification
  - c) 2-factor authentication
  - d) switching off the phone
- 11) One common way to maintain data availability is \_\_\_\_\_
- a) Data clustering
  - b) Data backup
  - c) Data recovery
  - d) Data Altering
- 12) The full form of Malware is \_\_\_\_\_
- a) Malfunctioned Software
  - b) Multipurpose Software
  - c) Malicious Software
  - d) Malfunctioning of Security
- 13) \_\_\_\_\_ is a code injecting method used for attacking the database of a system / website.
- a) HTML injection
  - b) SQL Injection
  - c) Malicious code injection
  - d) XML Injection

14) When there is an excessive amount of data flow, which the system cannot handle, \_\_\_\_\_ attack takes place.

- a) Database crash attack
- b) DoS (Denial of Service) attack
- c) Data overflow Attack
- d) Buffer Overflow attack

15) Which of them is NOT a wireless attack?

- a) Eavesdropping
- b) MAC Spoofing
- c) Wireless Hijacking
- d) Phishing

16) An attempt to harm, damage or cause threat to a system or network is broadly termed as \_\_\_\_\_

- a) Cyber-crime
- b) Cyber Attack
- c) System hijacking
- d) Digital crime

17) \_\_\_\_\_ are the special type of programs used for recording and tracking user's keystroke.

- a) Keylogger
- b) Trojans
- c) Virus
- d) Worms

18) \_\_\_\_\_ is a violent act done using the Internet, which either threatens any technology user or leads to loss of life or otherwise harms anyone in order to accomplish political gain.

- a) Cyber-warfare
- b) Cyber campaign
- c) Cyber-terrorism
- d) Cyber attack

19) From the options below, which of them is not a vulnerability to information security?

- a) Flood
- b) Without deleting data, disposal of storage media
- c) Unchanged default password
- d) Latest patches and updates not done

20) Compromising confidential information comes under \_\_\_\_\_

- a) Bug
- b) Threat
- c) Vulnerability
- d) Attack

## **Unit-2:- Data Encryption Techniques and Standards**

- 1) Lack of access control policy is a \_\_\_\_\_
  - a) Bug
  - b) Threat
  - c) Vulnerability
  - d) Attack
  
- 2) The method of hiding secrets is called \_\_\_\_\_
  - a) Cryptanalysis
  - b) Watermarking
  - c) Steganography
  - d) Cryptography
  
- 3) \_\_\_\_\_ is the art of breaking the code
  - a) Cryptanalysis
  - b) Steganography
  - c) Cryptography
  - d) Cryptosystem
  
- 4) One-time pad is also called as \_\_\_\_\_.
  - a) Perfect hiding
  - b) Perfect secrecy
  - c) Perfect writing
  - d) Perfect encryption
  
- 5) An encryption scheme means \_\_\_\_\_.
  - a) A private key
  - b) A plaintext message
  - c) A method of encoding information
  - d) A ciphertext message
  
- 6) The field which deals with \_\_\_\_\_ is called cryptography.
  - a) Encryption schemes and secure systems
  - b) Firewalls, operating systems and routers
  - c) Keys
  - d) Complex systems
  
- 7) Possible threat to any information cannot be \_\_\_\_\_.
  - a) Reduced
  - b) Transferred
  - c) Protected
  - d) ignored
  
- 8) In symmetric cryptography, which of the following MUST be true ?
  - a) For encryption and decryption, same amount of time is required
  - b) For encryption and decryption, different algorithms are used
  - c) Cryptographic operations are one-way and not reversible

- d) For encryption and decryption, same key is used
- 9) Which type of ciphers ECB and CBC are ?
- a) Stream
  - b) Block
  - c) Field
  - d) None of the above
- 10) Which of the following encryption algorithm uses 56-bit round key ?
- a) RSA
  - b) AES
  - c) IDEA
  - d) DES
- 11) If the key size is 24 bytes in AES, what would be the number of rounds ?
- a) 10
  - b) 12
  - c) 15
  - d) 14
- 12) If the key size is 32 bytes in AES, what would be the number of rounds ?
- a) 10
  - b) 12
  - c) 16
  - d) 14
- 13) In the last round of AES, which of the following step is absent ?
- a) Shift row
  - b) Mix columns
  - c) Byte substitution
  - d) Add subkey
- 14) \_\_\_\_\_ is the entity for issuing digital certificates.
- a) Certificate Authority (CA)
  - b) Cert Authority (CA)
  - c) Cert Authorization (CA)
  - d) Certificate Authorization (CA)
- 15) SRTP is abbreviated as \_\_\_\_\_
- a) Secure Relay Transport Protocol
  - b) Secure Real-time Transferring Protocol
  - c) Secure Real-time Transport Protocol
  - d) Secure Real-time Transportation Protocol
- 16) \_\_\_\_\_ is an attack technique where numerous SYN packets are spoofed with a bogus source address which is then sent to an inundated server.
- a) SYN flooding attack
  - b) ACK flooding attack
  - c) SYN & ACK flooding attack

d) Packet flooding attack

17) DES stands for \_\_\_\_\_.

- a) Data Encryption Standard
- b) Data Encryption Subscription
- c) Data Encryption Solutions
- d) Data Encryption Slots

18) The heart of DES is \_\_\_\_\_.

- a) Rounds
- b) Cipher
- c) Encryption
- d) DES function

19) DES follows \_\_\_\_\_.

- a) Hash Algorithm
- b) Caesars Cipher
- c) Feistel Cipher Structure
- d) SP Networks

20) The DES Algorithm Cipher System consists of \_\_\_\_\_ rounds (iterations) each with a round key.

- a) 12
- b) 18
- c) 9
- d) 16

21) The DES algorithm has a key length of \_\_\_\_\_.

- a) 128 Bits
- b) 32 Bits
- c) 64 Bits
- d) 16 Bits

22) In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via \_\_\_\_\_

- a) Scaling of the existing bits
- b) Duplication of the existing bits
- c) Addition of zeros
- d) Addition of ones

23) Triple-DES has \_\_\_\_\_ keys.

- a) 1
- b) 2
- c) 5
- d) 4

24) An electronic document that establishes your credentials when you are performing transactions.

- a) Digital code
- b) OTP
- c) E-mail
- d) Digital certificate

25) AES uses a \_\_\_\_\_ bit block size and a key size of \_\_\_\_\_ bits.

- a) 128; 128 or 256
- b) 64; 128 or 192
- c) 256; 128, 192, or 256
- d) 128; 128, 192, or 256

26) Like DES, AES also uses Feistel Structure.

- a) True
- b) False

27) Which one of the following is not a cryptographic algorithm- JUPITER, Blowfish, RC6 and Rijndael ?

- a) JUPITER
- b) Blowfish
- c) RC6
- d) Rijndael

28) How many rounds does the AES-192 perform?

- a) 10
- b) 12
- c) 14
- d) 16

29) What is the expanded key size of AES-192?

- a) 44 words
- b) 60 words
- c) 52 words
- d) 36 words

30) The  $4 \times 4$  byte matrices in the AES algorithm are called \_\_\_\_\_.

- a) States
- b) Words
- c) Transitions
- d) Permutations

### **Unit-3: Public Key and Management**

1) In the RSA algorithm, we select 2 random large values ‘p’ and ‘q’. Which of the following is the property of ‘p’ and ‘q’?

- a) p and q should be divisible by  $\Phi(n)$
- b) p and q should be co-prime
- c) p and q should be prime
- d)  $p/q$  should give no remainder

2) RSA cryptography relies on the difficulty \_\_\_\_\_.

- a) Calculating the factors of large prime number
  - b) Calculating the prime factors of a large composite number
  - c) Calculating the composite factors of a large composite number
  - d) Calculating the inverse of a large number
- 3) RSA is not affected by \_\_\_\_\_.
- a) Brute force attack
  - b) Timing attack
  - c) Meet-in-the-middle attack
  - d) Mathematical attack
- 4) Which of the following statement is NOT true for Asymmetric Encryption Algorithm ?
- a) It is slower as compared to symmetric encryption algorithm
  - b) It is generally used for encrypting small message
  - c) It is well-known as secret key encryption
  - d) It is well-known as public key encryption
- 5) In RSA,  $\Phi(n) = \text{_____}$  in terms of p and q.
- a)  $(p) / (q)$
  - b)  $(p) * (q)$
  - c)  $(p-1) * (q-1)$
  - d)  $(p+1) * (q+1)$
- 6) For  $p = 11$  and  $q = 19$  and choose  $e=17$ . Apply RSA algorithm where message=5 and find the cipher text.
- a) C=80
  - b) C=92
  - c) C=56
  - d) C=23
- 7) For  $p = 11$  and  $q = 19$  and choose  $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
- a) 54
  - b) 43
  - c) 5
  - d) 24
- 8) In cryptography, what is cipher?
- a) algorithm for performing encryption and decryption
  - b) encrypted message
  - c) both algorithm for performing encryption and decryption and encrypted message
  - d) decrypted message
- 9) In asymmetric key cryptography, the private key is kept by \_\_\_\_\_
- a) Sender
  - b) Receiver
  - c) sender and receiver
  - d) all the connected devices to the network

10) Which one of the following algorithm is not used in asymmetric-key cryptography?

- a) RSA algorithm
- b) Diffie-hellman algorithm
- c) Electronic code book algorithm
- d) DSA algorithm

11) What is data encryption standard (DES)?

- a) Block cipher
- b) Stream cipher
- c) Bit cipher
- d) Byte cipher

12) ElGamal encryption system is \_\_\_\_\_.

- a) Symmetric key encryption algorithm
- b) Asymmetric key encryption algorithm
- c) Not an encryption algorithm
- d) Block cipher method

13) Diffie-Hellman algorithm is suffered by \_\_\_\_\_.

- a) Brute force attack
- b) Man-in-the-middle attack
- c) Timing attack
- d) None of the above

14) In cryptography, the public keys can be distributed using \_\_\_\_\_.

- a) Public announcement
- b) Publicly available directory
- c) Public key authority
- d) All of the above

15) For Diffie-Hellman algorithm, which of the following statement is true ?

- a) If the values of n and g are small, it is possible for the attackers to find out the values of private keys of the users
- b) If the values of n and g are small, it is possible for the attackers to find out the value of shared secret key
- c) Man-in-the-middle attack is possible against Diffie-Hellman algorithm
- d) The shared secret key is transmitted in encrypted form among the users

16) Kerberos is considered secure because \_\_\_\_\_.

- a) It uses AES for encryption
- b) It has no single point of failure
- c) It uses public key cryptography
- d) None of the above

17) In Kerberos, a client sends a ticket to a server. The server is convinced that the ticket is genuine

because \_\_\_\_\_.

- a) It came from the client

- b) It can decode it
- c) It came from the KDC
- d) It is new

18) Kerberos does not address \_\_\_\_\_ issue.

- a) Availability
- b) Privacy
- c) Authentication
- d) Integrity

19) A message sent with \_\_\_\_\_ is authentic and digitally signed.

- a) Message digest/hash encrypted with the receiver's public key
- b) Message digest/hash encrypted with the receiver's private key
- c) Message digest/hash encrypted with the sender's public key
- d) Message digest/hash encrypted with the sender's private key

20) MD5 and SHA are \_\_\_\_\_.

- a) Asymmetric block ciphers
- b) Message signing algorithms
- c) Stream ciphers
- d) Symmetric block ciphers

21) What is the preferred way of encryption?

- a) Pre shared secret key
- b) Using Key Distribution Center (KDC)
- c) Public key-encryption
- d) Symmetric key

22) What is NOT an encryption standard?

- a) AES
- b) TES
- c) Triple DES
- d) DES

23) Which of the following is NOT a stream cipher?

- a) Two fish
- b) RC5
- c) RC4
- d) TBONE

24) MD5 produces \_\_\_\_\_ bits hash data.

- a) 128
- b) 150
- c) 160
- d) 112

25) SHA-1 produces \_\_\_\_\_ bit of hash.

- a) 128

- b) 160
- c) 150
- d) 112

26) What is a Hash Function?

- a) It creates a small flexible block of data
- b) It creates a small, fixed block of data
- c) It creates an encrypted block of data
- d) None of the mentioned

27) What is the role of Key Distribution Center?

- a) It is used to distribute keys to everyone in world
- b) It intended to reduce the risks inherent in exchanging keys
- c) All of the mentioned
- d) None of the mentioned

28) When a hash function is used to provide message authentication, the hash function value is referred to as \_\_\_\_\_.

- a) Message Field
- b) Message Digest
- c) Message Score
- d) Message Leap

29) Message authentication code is also known as \_\_\_\_\_.

- a) Key code
- b) Hash code
- c) Keyed hash function
- d) Message key hash function

30) A strong method of authentication is \_\_\_\_\_.

- a) Message digest algorithms
- b) Encryption techniques
- c) Digital signature
- d) None of the above

### **Solution Key: Unit-1**

1) a	2) d	3) a	4) f	5) b	6) b
7) c	8) d	9) c	10) d	11) b	12) c
13) b	14) d	15) d	16) b	17) a	18) c
19) a	20) b				

### **Solution Key: Unit-2**

1) c	2) d	3) a	4) b	5) c	6) a
7) d	8) d	9) b	10) b	11) b	12) d
13) b	14) a	15) c	16) a	17) a	18) d
19) c	20) d	21) c	22) a	23) b	24) d
25) d	26) b	27) a	28) b	29) c	30) a

### **Solution Key: Unit-3**

1) c	2) b	3) c	4) c	5) c	6) a
7) c	8) a	9) b	10) c	11) a	12) b
13) b	14) d	15) d	16) b	17) c	18) d
19) d	20) b	21) c	22) b	23) d	24) a
25) b	26) b	27) b	28) b	29) c	30) c



**International Institute of Information Technology,  
Pune - 411057**  
**Department of Computer Engineering**  
**Semester -II (AY 2019-20)**

**Question Bank - Unit 3**

**Subject: ICS**

**Date: Feb. 20, 2020**

**Class: BE (Comp)**

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**Unit-3**

- 1) What is public key cryptography ? Give few characteristics of public key cryptography.
- 2) How authentication and secrecy are achieved in public key cryptography ?
- 3) Compare symmetric and asymmetric cryptography ? Which of these is best ? Why ?
- 4) Write an algorithm for key generation in RSA.
- 5) Discuss the security aspect of RSA algorithm.
- 6) What is the timing attack on RSA ? How it can be prevented ?
- 7) Use RSA algorithm to encrypt the message  $M=123$  using the values of  $p=11$ ,  $q=3$ ,  $e=13$
- 8) For the given parameters  $P=3$  and  $Q=19$ , find the values of “e” and “d” using RSA algorithm and encrypt the message  $M=6$ .
- 9) What are the methods used in key distribution in public key cryptography ?
- 10) Explain “Diffie-Hellman” key exchange algorithm with suitable example.
- 11) What is a public key certificate ?
- 12) What is Digital signature ? Explain Digital Signature Standard.
- 13) What is an Elliptic curve ? What is the zero point of an Elliptic curve?
- 14) Explain the operation of Kerberos.
- 15) What is Message digest ? Compare MD5 with SHA-1.

**Subject In-charge**

**Prof. Ravindra P. Joshi**

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem _____ keys are used for encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different
((OPTION_C)) This is optional	Encryption Keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	In conventional cryptosystem, same keys are used for encryption and decryption where as in public key cryptosystem different keys are used.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem which is kept as public?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption keys
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption keys
((OPTION_C)) This is optional	Encryption & Decryption keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	In public key cryptosystem, the encryption keys are kept as public where as decryption keys are kept as secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptosystem uses same key for both encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which should be kept as a secret in public key cryptosystem?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption key
((OPTION_C)) This is optional	Encryption & Decryption key
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	In public key cryptosystem, Encryption is done using public key . decryption key needs to be kept as a secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Euler's totient function is determined by
((OPTION_A)) THIS IS MANDATORY OPTION	$pq$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(p-1)(q-1)$
((OPTION_C)) This is optional	$(p+1)(q+1)$
((OPTION_D)) This is optional	$p/q$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The Euler's totient function is determined by $(p-1)(q-1)$ , where p and q are kept hidden.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'?
((OPTION_A))  THIS IS MANDATORY OPTION	p and q should be divisible by $\Phi(n)$
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	p and q should be co-prime
((OPTION_C))  This is optional	p and q should be prime
((OPTION_D))  This is optional	p/q should give no remainder
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	'p' and 'q' should have large random values which are both prime numbers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.
((OPTION_A)) THIS IS MANDATORY OPTION	(p)/(q)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	(p)(q)
((OPTION_C)) This is optional	(p-1)(q-1)
((OPTION_D)) This is optional	(p+1)(q+1)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$\Phi(n) = (p-1)(q-1).$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	$\gcd(e, \Phi(n))=1$ ; and $1 < e < \Phi(n)$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $e=17$ . Apply RSA algorithm where message=5 and find the cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	C=80
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	C=92
((OPTION_C)) This is optional	C=56
((OPTION_D)) This is optional	C=23
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 209.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	54
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	43
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	24
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$n = pq = 11 \times 19 = 209$ . $C=M^e \text{ mod } n ; C=5^{17} \text{ mod } 209 ; C = 80 \text{ mod } 209$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	$n = 35; e = 5; C = 10$ . What is the plaintext (use RSA) ?
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	7
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Use RSA system to decrypt and get PT = 5.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where PT message=88 and thus find the CT.
((OPTION_A)) THIS IS MANDATORY OPTION	23
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64
((OPTION_C)) This is optional	11
((OPTION_D)) This is optional	54
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=88^7 \text{ mod } 187 ; C = 11 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where Cipher message=11 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	88
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	122
((OPTION_C)) This is optional	143
((OPTION_D)) This is optional	111
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=11^{23} \text{ mod } 187 ; C = 88 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an RSA system the public key of a given user is $e = 31$ , $n = 3599$ . What is the private key of this user?
((OPTION_A))  THIS IS MANDATORY OPTION	3031
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	2412
((OPTION_C))  This is optional	2432
((OPTION_D))  This is optional	1023
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	By trial and error, we determine that $p = 59$ and $q = 61$ . Hence $f(n) = 58 \times 60 = 3480$ . Then, using the extended Euclidean algorithm, we find that the multiplicative inverse of 31 modulo $f(n)$ is 3031

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compute private key (d, p, q) given public key (e=23, n=233 ´ 241=56,153).
((OPTION_A)) THIS IS MANDATORY OPTION	35212
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	12543
((OPTION_C)) This is optional	19367
((OPTION_D)) This is optional	32432
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Since n=233 ´ 241=56,153, p=233 and q=241 $f(n) = (p - 1)(q - 1) = 55,680$ Using Extended Euclidean algorithm, we obtain $d = 23^{-1} \text{ mod } 55680 = 19,367.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a RSA cryptosystem a particular A uses two prime numbers $p = 13$ and $q = 17$ to generate her public and private keys. If the public key of A is 35. Then the private key of A is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	13
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	17
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In an RSA cryptosystem, for public key: $\text{GCD}(\phi(n), e) = 1$ And, for private key:

	$(e * d) \bmod \phi(n) = 1$ Where, $\phi(n) = (p - 1)*(q - 1) = (13 - 1)(17 - 1) = 12 * 16 = 192$ Such that $1 < e, d < \phi(n)$ Therefore, the private key is: $(35 * d) \bmod \phi(n) = 1$ $d = 11$
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA public key cryptosystem, which one of the following numbers will always be largest?
((OPTION_A)) THIS IS MANDATORY OPTION	E
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	N
((OPTION_C)) This is optional	P
((OPTION_D)) This is optional	Q
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The number n is generated as the product of the two large prime numbers p and q. Therefore, n must always be greater than both p and q. Furthermore, it is an algorithm constraint that e must be chosen such that e is smaller than n. Therefore, in RSA cryptography n is always the largest of the four variables shown in the options to this question.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If Richard wants to send an encrypted message to Sue using a public key cryptosystem, which key does he use to encrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Richard must encrypt the message using Sue's public key so that Sue can decrypt it using her private key. If he encrypted the message with his own public key, the recipient would need to know Richard's private key to decrypt the message. If he encrypted it with his own private key, any user could decrypt the message using Richard's freely available public key. Richard could not encrypt the message using Sue's private key because he does not have access to it. If he did, any user could decrypt it using Sue's freely available public key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Acme Widgets currently uses a 1,024-bit RSA encryption standard companywide. The company plans to convert from RSA to an elliptic curve cryptosystem. If it wishes to maintain the same cryptographic strength, what ECC key length should it use?
((OPTION_A)) THIS IS MANDATORY OPTION	160 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	512 bits
((OPTION_C)) This is optional	1,024 bits
((OPTION_D)) This is optional	2,048 bits

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The elliptic curve cryptosystem requires significantly shorter keys to achieve encryption that would be the same strength as encryption achieved with the RSA encryption algorithm. A 1,024-bit RSA key is cryptographically equivalent to a 160-bit elliptic curve cryptosystem key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Richard received an encrypted message sent to him from Sue. Which key should he use to decrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sue would have encrypted the message using Richard's public key. Therefore, Richard needs to use the complementary key in the key pair, his private key, to decrypt the message.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One commonly used public-key cryptography method is the _____ algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the objective of Diffie-Hellman key exchange?
((OPTION_A)) THIS IS MANDATORY OPTION	To protect encrypted data from man-in-the-middle attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	To perform mutual authentication on both sides
((OPTION_C)) This is optional	To prove to another party that one holds a secret key without revealing it
((OPTION_D)) This is optional	To establish a shared secret key on both sides

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The security of RSA encryption relies on which assumption?
((OPTION_A)) THIS IS MANDATORY OPTION	It is computationally infeasible to compute a GCD of two large numbers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is computationally infeasible to factor a large number.
((OPTION_C)) This is optional	It is computationally infeasible to test whether a large number is prime.
((OPTION_D)) This is optional	It is computationally infeasible to compute a square modulo n.

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is asymmetric cryptography?
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	Both ECC and RSA
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below requires less hardware capacity because of less key size
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Diffie Hellman is _____
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption algorithm
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	D-H is key exchange algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Timing attack on RSA can be avoided by __
((OPTION_A)) THIS IS MANDATORY OPTION	Padding extra bits in message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Adding delays
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below algorithm is used in cryptocurrency?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AES
((OPTION_C)) This is optional	ECC
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When a hash function is used to provide message authentication, the hash function value is called to as:
((OPTION_A)) THIS IS MANDATORY OPTION	Message Field
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Message Digest
((OPTION_C)) This is optional	Message Score
((OPTION_D)) This is optional	Message Leap

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	We know that the hash function providing message authentication is referred to as message digest in cryptography.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following are used to create a message digest  a. RSA b. SHA-1 c. DES d. MD5
((OPTION_A)) THIS IS MANDATORY OPTION	A&B
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	B&C
((OPTION_C)) This is optional	A&C

((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	They are Message digest algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the output of a cryptographic hash function?
((OPTION_A)) THIS IS MANDATORY OPTION	A variable set of bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A fixed set of bits, derived from one-way mathematical operations
((OPTION_C)) This is optional	An output which may be easily discovered by an adversary

((OPTION_D)) This is optional	Outputs of such functions are of no importance
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest algorithms are primarily used to provide _____
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	inegrity

((OPTION_D)) This is optional	authorization
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a message digest algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IDEA
((OPTION_C)) This is optional	MD5

((OPTION_D)) This is optional	RSA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the data must arrive at the receiver exactly as sent.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the receiver is ensured that the message is coming from the intended sender, not an imposter.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ function creates a message digest out of a message
((OPTION_A)) THIS IS MANDATORY OPTION	encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	hash

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a trusted third party that assigns a symmetric key to two parties.
((OPTION_A)) THIS IS MANDATORY OPTION	Public directory
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Certificate authority
((OPTION_C)) This is optional	Both

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature provides _____.
((OPTION_A)) THIS IS MANDATORY OPTION	authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nonrepudiation
((OPTION_C)) This is optional	both (a) and (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature needs a(n) _____ system
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a federal or state organization that binds a public key to an entity and issues a certificate.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	means that a sender must not be able to deny sending a message that he sent.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication

((OPTION_D)) This is optional	Nonrepudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is a popular session key creator protocol that requires an authentication server and a ticket-granting server.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The MD5 is a message digest algorithm developed by
((OPTION_A)) THIS IS MANDATORY OPTION	Ron Rivest.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	WhiteField Diffie.
((OPTION_C)) This is optional	Martin Hellman.

((OPTION_D)) This is optional	Diffie-Hellman.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 is quite fast and produces _____ message digests
((OPTION_A)) THIS IS MANDATORY OPTION	512 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1024 bits
((OPTION_C)) This is optional	128 bits

((OPTION_D)) This is optional	64 bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The first step of MD5 is
((OPTION_A)) THIS IS MANDATORY OPTION	add padding bits to original messsge
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	adding append length bits
((OPTION_C)) This is optional	divide the input into 512 bit blocks

((OPTION_D)) This is optional	compression
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the process block divides the 512 bits into _____ sub blocks.
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	24
((OPTION_C)) This is optional	32

((OPTION_D)) This is optional	84
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which financial institutions have a relationship with merchants for processing payment card authorizations and payments?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Acquirer
((OPTION_C)) This is optional	Merchant

((OPTION_D)) This is optional	Dealer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following contains the order information such as which items are being purchased?
((OPTION_A)) THIS IS MANDATORY OPTION	PI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	OI
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Payment information can be encrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	customer's private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	merchant public key
((OPTION_C)) This is optional	one-time session key.

((OPTION_D)) This is optional	customer's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature envelope is decrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	merchant private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	payment's private key
((OPTION_C)) This is optional	payment public key

((OPTION_D)) This is optional	merchant's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ will ensure the merchant and their payment information
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Dual signature

((OPTION_D)) This is optional	Certificate authority
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SET provides an authentication with the help of _____
((OPTION_A)) THIS IS MANDATORY OPTION	dual signature
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	digital certificate
((OPTION_C)) This is optional	payment's public key

((OPTION_D)) This is optional	payment's private key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are very crucial for success of RSA algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	Integers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Prime numbers
((OPTION_C)) This is optional	Negative number

((OPTION_D)) This is optional	Fraction
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ acts as financial institutions who provides a payment card to a card holder
((OPTION_A)) THIS IS MANDATORY OPTION	payment gateway
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	card holder
((OPTION_C)) This is optional	acquirer

((OPTION_D)) This is optional	issuer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	ISSUER means Bank

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who will be responsible for processing the payment from the customer's account to the merchant account?
((OPTION_A)) THIS IS MANDATORY OPTION	Acquirer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Issuer

((OPTION_D)) This is optional	Payment gateway
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cardholder combines the PIMD and OIMD and hashes them together to form
((OPTION_A)) THIS IS MANDATORY OPTION	OPMD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POMD
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which process will ensure that the issues of the credit card is an approved transactions?
((OPTION_A)) THIS IS MANDATORY OPTION	Payment capture
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Payment authorization
((OPTION_C)) This is optional	Purchase request

((OPTION_D)) This is optional	Purchase reply
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is used for hiding the payment information from the merchant.
((OPTION_A)) THIS IS MANDATORY OPTION	SET
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	SHTTP

((OPTION_D)) This is optional	TSP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A __word buffer is used to compute the message digest in MD5
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5

((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	4 WORD A,B,C,D

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the message is <b>padded</b> so that its length is divisible by ____
((OPTION_A)) THIS IS MANDATORY OPTION	32
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	128
((OPTION_C)) This is optional	512

((OPTION_D)) This is optional	1024
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 should meet requirements:
((OPTION_A)) THIS IS MANDATORY OPTION	It is impossible to generate two inputs that cannot produce the same hash function
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is impossible to generate a message having the same hash value
((OPTION_C)) This is optional	Both of the above

((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 takes an input of ___ size and produces an output if a 128-bit hash value
((OPTION_A)) THIS IS MANDATORY OPTION	Any
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Multiple of 512
((OPTION_C)) This is optional	Multiple of 128

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following best describes sniffing?
((OPTION_A)) THIS IS MANDATORY OPTION	Gathering packets to locate IP addresses, in order to initiate a session hijacking attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Analyzing packets in order to locate the sequence number to start a session hijack
((OPTION_C)) This is optional	Monitoring TCP sessions in order to initiate a session-hijacking attack

((OPTION_D)) This is optional	Locating a host susceptible to a session-hijack attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sniffing is usually used to locate the sequence number, which is necessary for a session hijack.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The secret key between members needs to be created as a _____ key when two members contact Kerberos system
((OPTION_A)) THIS IS MANDATORY OPTION	Public
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session
((OPTION_C))	complimentary

This is optional	
((OPTION_D))	None of these
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main components of Kerberos are:
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	database

This is optional	
((OPTION_D))	All of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ performs the initial authentication and ticket for Ticket Granting Service
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	Database

This is optional	
((OPTION_D))	Kerberos
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Authentication Server verifies access right of users in __
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TG server
((OPTION_C))	Database

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ issues the ticket for the Server
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	DB

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is primarily used for _____
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))	confidentiality

This is optional	
((OPTION_D))	authorization
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The KDC encrypts the TGT with a password that only the _____ knows.
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	Server

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Because no one else needs to be able to see the contents.  It's for the server to keep track of the client

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The essence of Kerberos' system is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	One way authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity

((OPTION_C)) This is optional	Mutual authentication
((OPTION_D)) This is optional	Public authentication
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not an element/field of the X.509 certificates?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer Name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Serial Modifier

((OPTION_C)) This is optional	Issuer unique Identifier
((OPTION_D)) This is optional	Signature
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 certificate recommends which cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	DES

((OPTION_C)) This is optional	AES
((OPTION_D)) This is optional	Rabin
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The standard used in digital certificates that defines its structure, fields, and Values is
((OPTION_A)) THIS IS MANDATORY OPTION	Kerberos
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	End to end encryption

((OPTION_C)) This is optional	X.509
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 Certificates includes
((OPTION_A)) THIS IS MANDATORY OPTION	Version
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	signature algorithm identifier

((OPTION_C)) This is optional	period of validity
((OPTION_D)) This is optional	extension fields
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CH OICE)) Either A or B or C or D or E	E
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ defines a framework for the provision of authentication services by the X.500 directory
((OPTION_A)) THIS IS MANDATORY OPTION	X.509
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.508

((OPTION_C)) This is optional	X.505
((OPTION_D)) This is optional	X.609
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature is a mathematical technique used to validate the _____ and _____ of a message, software or digital document
((OPTION_A)) THIS IS MANDATORY OPTION	Authenticity, integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity, confidentiality

((OPTION_C)) This is optional	Integrity,non-repudiation
((OPTION_D)) This is optional	Authenticity,confidentiality
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature involves ____ and ____
((OPTION_A)) THIS IS MANDATORY OPTION	Signature verification ,validation
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Signature creation,verification

((OPTION_C)) This is optional	Signature creation,deletion
((OPTION_D)) This is optional	Signature validation,modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest is computed by applying hash function on the message and then message digest is encrypted using _____ key of sender to form the digital signature.
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Session
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature , Receiver decrypts the digital signature using the _____ key of sender
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Secret
((OPTION_D)) This is optional	Session
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature, The message digest computed by ___ and the message digest (got by decryption on digital signature) need to be ___ for ensuring integrity
((OPTION_A)) THIS IS MANDATORY OPTION	Receiver,same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Receiver,different

((OPTION_C)) This is optional	Sender,same
((OPTION_D)) This is optional	Sender,different
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____is like a fingerprint or an attachment to a digital document that ensures its authenticity and integrity.
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Digital signature

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature follows _____
((OPTION_A)) THIS IS MANDATORY OPTION	Digital Signature Standard (DSS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.509 standard format

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In diffie-hellman algorithm, if Alice and Bob wish to communicate with each other, they first agree between them a large prime number n, and ____ g
((OPTION_A)) THIS IS MANDATORY OPTION	Generator
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Small prime number

((OPTION_C)) This is optional	Natural number
((OPTION_D)) This is optional	Factorial
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm if $X_a$ is private key of user then public key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$g^{X_a} \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$n^{X_a} \text{ mod } n$

((OPTION_C)) This is optional	$g^n \bmod p$
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, ____ keys of each other should be known
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session

((OPTION_C)) This is optional	Public
((OPTION_D)) This is optional	No
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm,shared secret key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$(g^a \text{ mod } n)^b \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(g^b \text{ mod } n)^a \text{ mod } n$

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, the resulting shared secret will be the ___ every time
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different

((OPTION_C)) This is optional	Maybe same
((OPTION_D)) This is optional	Can't say
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ the first widely used method of safely developing and exchanging keys over an insecure channel
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSS

((OPTION_C)) This is optional	Diffie Hellman
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suppose that two parties A and B wish to set up a common secret key (D-H key) between themselves using the Diffie Hellman key exchange technique. They agree on 7 as the modulus and 3 as the primitive root. Party A chooses 2 and party B chooses 5 as their respective secrets. Their D-H key is
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4

((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prime value $q = 17$ and primitive root $= 5$ . If Alice's secret key is 4 and Bob's secret key is 6, what is the shared secret key they exchanged?
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	17

((OPTION_C)) This is optional	18
((OPTION_D)) This is optional	19
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each round of MD5 consist of ____ operations
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15

((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	18
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each buffer of MD5 algorithm is ____ bit long
((OPTION_A))  THIS IS MANDATORY OPTION	32
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	64

((OPTION_C)) This is optional	128
((OPTION_D)) This is optional	512
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	RSA is _____ cryptography
((OPTION_A)) THIS IS MANDATORY OPTION	Asymmetric
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Value generated by hash function is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Message digest
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hash

((OPTION_C)) This is optional	MAC
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not service of digital signature
((OPTION_A))  THIS IS MANDATORY OPTION	Authentication to message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data integrity

((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ digitally signs this entire information and includes digital signature in the certificate
((OPTION_A)) THIS IS MANDATORY OPTION	CA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	KDC

((OPTION_C)) This is optional	PKI
((OPTION_D)) This is optional	DB
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA ,e is used as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Euler's totient
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, d is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key
((OPTION_C)) This is optional	Totient function
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following Algorithms does not belong to symmetric encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	3DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	RC5
((OPTION_D)) This is optional	IDEA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Assymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?
((OPTION_A)) THIS IS MANDATORY OPTION	Not true, the message can also be decrypted with the Public Key.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A so called "one way function with back door" is applied for the encryption
((OPTION_C)) This is optional	The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.
((OPTION_D)) This is optional	The encrypted message contains the function for decryption which identifies the Private Key.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	An one-way function is a function which a computer can calculate quickly, but whose reversal would last months or years. An one-way function with back door can be reversed with the help of a couple of additional information (the back door), but scarcely

	without this information. The information for the back door is contained in the private Key.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the largest disadvantage of the symmetric Encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	More complex and therefore more time-consuming calculations.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Problem of the secure transmission of the Secret Key
((OPTION_C)) This is optional	Less secure encryption function.
((OPTION_D)) This is optional	Isn't used any more
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION))	As there is only one key in the symmetrical encryption, this must

)) This is also optional	be known by both sender and recipient and this key is sufficient to decrypt the secret message. Therefore it must be exchanged between sender and receiver in such a manner that an unauthorized person can in no case take possession of it.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the principle of the encryption using a key?
((OPTION_A)) THIS IS MANDATORY OPTION	The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	The key contains the secret function for encryption including parameters. Only a password can activate the key.
((OPTION_C)) This is optional	All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.
((OPTION_D)) This is optional	The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	C

E	
((EXPLANATION)) This is also optional	The encoding of a message is calculated by an algorithm. If always the same algorithm would be used, it would be easy to crack intercepted messages. However, it isn't possible to invent a new algorithm whenever the old one was cracked, therefor the possibility to parameterize algorithms is needed and this is the assignment of the key. All algorithms must be public, only the keys are secret (principle of Kerckhoff, Dutch cryptographer during 19th century).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If the sender and receiver use different keys, the system is referred to as conventional cipher system
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Such a system is called asymmetric, two-key, or public-key cipher system

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Use Caesar's Cipher to decipher the following HQFUBSWHG WHAW
((OPTION_A)) THIS IS MANDATORY OPTION	ABANDONED LOCK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ENCRYPTED TEXT
((OPTION_C)) This is optional	ABANDONED TEXT
((OPTION_D)) This is optional	ENCRYPTED LOCK
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher uses $C = (p+3) \text{ mod } 26$ to encrypt.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Caesar Cipher is an example of
((OPTION_A)) THIS IS MANDATORY OPTION	Poly-alphabetic Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Mono-alphabetic Cipher
((OPTION_C)) This is optional	Multi-alphabetic Cipher
((OPTION_D)) This is optional	Bi-alphabetic Cipher
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher is an example of Mono-alphabetic cipher, as single alphabets are encrypted or decrypted at a time.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Monoalphabetic ciphers are easier to break because they reflect the frequency of the original alphabet.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis
((OPTION_A)) THIS IS MANDATORY OPTION	Random Polyalphabetic, Plaintext, Playfair
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Random Polyalphabetic, Playfair, Vignere
((OPTION_C)) This is optional	Random Polyalphabetic, Vignere, Playfair, Plaintext
((OPTION_D)) This is optional	Random Polyalphabetic, Plaintext, Beaufort, Playfair
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Random Polyalphabetic is the most resistant to frequency analysis, followed by Vignere, Playfair and then Plaintext.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-
((OPTION_A)) THIS IS MANDATORY OPTION	abqdnwewuwjphfvrrtrfznsdokvl
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	abqdmwuwjphfvyyrfznydokvl
((OPTION_C)) This is optional	tbqyrvmwuwjphfvyyrfznydokvl
((OPTION_D)) This is optional	baiuvmwuwjphfoeiyrfznydokvl
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	nlazeiiblji
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nlazeiiblji
((OPTION_C)) This is optional	olaaeiiblki
((OPTION_D)) This is optional	mlaaeiiblki
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Confusion hides the relationship between the ciphertext and the plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Confusion hides the relationship between the ciphertext and the key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The S-Box is used to provide confusion, as it is dependent on the unknown key.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	false
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>The S-Box is used to provide confusion, as it is dependent on the unknown key.</p> <p>The P-Box is fixed, and there is no confusion due to it, but it provides diffusion.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p>This is an example of</p> <pre> graph TD     P[P] --&gt; L1[L1]     P --&gt; R1[R1]     R1 --&gt; F1[F]     K1[K1] --&gt; F1     F1 --&gt; L2[L2]     L2 --&gt; R2[R2]     R2 --&gt; F2[F]     K2[K2] --&gt; F2     F2 --&gt; L3[L3]     L3 --&gt; Rn[Rn]     Rn --&gt; Fn[Fn]     Kn[Kn] --&gt; Fn     Fn --&gt; Ln[Ln]     Ln --- C[C]     </pre>
((OPTION_A)) THIS IS MANDATORY OPTION	SP Networks
((OPTION_B)) THIS IS ALSO MANDATORY	Feistel Cipher

OPTION	
((OPTION_C)) This is optional	Hash Algorithm
((OPTION_D)) This is optional	Hill Cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following slows the cryptographic algorithm – 1) Increase in Number of rounds 2) Decrease in Block size 3) Decrease in Key Size 4) Increase in Sub key Generation
((OPTION_A)) THIS IS MANDATORY OPTION	1 and 3
((OPTION_B)) THIS IS ALSO MANDATORY	2 and 3

OPTION	
((OPTION_C)) This is optional	3 and 4
((OPTION_D)) This is optional	2 and 4
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Increase in any of the above 4 leads to slowing of the cipher algorithm i.e. more computational time will be required.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES follows
((OPTION_A)) THIS IS MANDATORY OPTION	Hash Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY	Caesars Cipher

OPTION	
((OPTION_C)) This is optional	Feistel Cipher Structure
((OPTION_D)) This is optional	SP Network
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES Algorithm Cipher System consists of _____ rounds (iterations) each with a round key
((OPTION_A)) THIS IS MANDATORY OPTION	12
((OPTION_B)) THIS IS ALSO MANDATORY	18

OPTION	
((OPTION_C)) This is optional	9
((OPTION_D)) This is optional	16
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The DES Algorithm Cipher System consists of 16 rounds (iterations) each with a round key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES algorithm has a key length of
((OPTION_A)) THIS IS MANDATORY OPTION	128 Bits
((OPTION_B)) THIS IS ALSO MANDATORY	32 Bits

OPTION	
((OPTION_C)) This is optional	64 Bits
((OPTION_D)) This is optional	16 Bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	56 bits are used, the rest 8 bits are parity bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	48, 32
((OPTION_B)) THIS IS ALSO MANDATORY	64,32

OPTION	
((OPTION_C)) This is optional	56, 24
((OPTION_D)) This is optional	32, 32
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The round key is 48 bits. The input is 32 bits

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____
((OPTION_A)) THIS IS MANDATORY OPTION	Scaling of the existing bits
((OPTION_B)) THIS IS ALSO MANDATORY	Duplication of the existing bits

<b>OPTION</b>	
((OPTION_C)) This is optional	Addition of zeros
((OPTION_D)) This is optional	Addition of ones
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits. This input is first expanded to 48 bits (permutation plus an expansion), that involves duplication of 16 of the bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Initial Permutation table/matrix is of size
((OPTION_A)) THIS IS MANDATORY OPTION	16x8
((OPTION_B)) THIS IS ALSO MANDATORY	12x8

OPTION	
((OPTION_C)) This is optional	8x8
((OPTION_D)) This is optional	4x8
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	There are 64 bits to permute and this requires a 8x8 matrix.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The number of unique substitution boxes in DES after the 48 bit XOR operation are
((OPTION_A)) THIS IS MANDATORY OPTION	8
((OPTION_B)) THIS IS ALSO MANDATORY	4

OPTION	
((OPTION_C)) This is optional	6
((OPTION_D)) This is optional	12
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The substitution consists of a set of 8 S-boxes, each of which accepts 6 bits as input and produces 4 bits as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During decryption, we use the Inverse Initial Permutation (IP-1) before the IP.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	IP-1 is the first step and the last step is IP during decryption.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A preferable cryptographic algorithm should have a good avalanche effect.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Thus statement is true as a change in one bit of the plaintext or one bit of the key should produce a change in many bits of the ciphertext. This is referred to as the avalanche effect.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the size(in bits) of the key in the SDES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	24
((OPTION_B)) THIS IS ALSO MANDATORY	16

OPTION	
((OPTION_C)) This is optional	20
((OPTION_D)) This is optional	10
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The size of the key in the SDES algorithm is 10 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	GCD(a,b) is the same as GCD( a , b ).
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is true. $\gcd(60,24) = \gcd(60,-24) = 12$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 1160718174 and 316258250 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	882
((OPTION_B)) THIS IS ALSO MANDATORY	770

OPTION	
((OPTION_C)) This is optional	1078
((OPTION_D)) This is optional	1225
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$\text{GCD}(1160718174, 316258250) = 1078$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 102947526 and 239821932 using Euclidean algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	$\text{GCD}(102947526, 239821932) = 6.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 8376238 and 1921023 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	13
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	17
((OPTION_D)) This is optional	7
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	$\text{GCD}(8376238, 1921023) = 13.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 1234 mod 4321 is
((OPTION_A)) THIS IS MANDATORY OPTION	3239
((OPTION_B)) THIS IS ALSO MANDATORY	3213

OPTION	
((OPTION_C)) This is optional	3242
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The multiplicative Inverse of 1234 mod 4321 is 3239.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 550 mod 1769 is
((OPTION_A)) THIS IS MANDATORY OPTION	434
((OPTION_B)) THIS IS ALSO MANDATORY	224

OPTION	
((OPTION_C)) This is optional	550
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The multiplicative Inverse of 550 mod 1769 is 550.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p><b>You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,</b></p> $A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$ <p><b>Is the given matrix 'A', a valid key to be used for encryption?</b></p>
((OPTION_A)) THIS IS MANDATORY OPTION	Yes
((OPTION_B))	No

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Can't be determined
((OPTION_D)) This is optional	Data insufficient
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist.</p> <p>Here, in this case,</p> $  A   = 0$ <p>Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the <a href="#">Hill cipher</a>.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	The input text is divided into two parts: one being left half and another one being right half.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Swapping of the left and right halves are performed after each round.
((OPTION_C)) This is optional	The plain text is converted into a matrix form first
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Among the following given options, chose the strongest encryption technique

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	DES ( Data Encryption Standard))
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Double DES
((OPTION_C)) This is optional	Triple DES
((OPTION_D)) This is optional	AES (Advance Encryption Standard)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	<p><b>Consider the following steps,</b></p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift Rows</li> </ul>

IMAGES ALSO	<p>iii. Mix columns iv. Add round key</p> <p><b>The above steps are performed in each round of which of the following ciphers?</b></p>
((OPTION_A))  THIS IS MANDATORY OPTION	Rail fence cipher
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data Encryption Standard (DES)
((OPTION_C))  This is optional	Advance Encryption Standard (AES)
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ algorithm transforms ciphertext to plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ cipher replaces one character with another character.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ cipher reorders the plaintext characters to create a ciphertext.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the receiver uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either a or b
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is a(n) _____ method adopted by the U.S. government.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	either (a) or (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are _____ ciphers.
((OPTION_A)) THIS IS MANDATORY OPTION	block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	stream
((OPTION_C)) This is optional	field
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ cipher, the same key is used by both the sender and receiver.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ciphers can be categorized into two broad categories: monoalphabetic and polyalphabetic.
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the sender uses the_____key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a(n) _____ cipher, a pair of keys is used.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	2
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES uses a _____ bit block size and a key size of _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	128; 128 or 256
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64; 128 or 192
((OPTION_C)) This is optional	256; 128, 192, or 256
((OPTION_D)) This is optional	128; 128, 192, or 256
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	It uses a 128-bit block size and a key size of 128, 192, or 256 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Like DES, AES also uses Feistel Structure.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES does not use a Feistel structure. Instead, each full round consists of four separate functions: -byte substitution -Permutation -arithmetic operations over a finite field, and -XOR with a key.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The 4x4 byte matrices in the AES algorithm are called
((OPTION_A)) THIS IS MANDATORY OPTION	States
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Words
((OPTION_C)) This is optional	Transitions
((OPTION_D)) This is optional	Permutations
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is a type of substitution cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	poly alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition cipher
((OPTION_C)) This is optional	Columnar cipher
((OPTION_D)) This is optional	Rail fence cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In substitution cipher the plain text is replaced by cipher text according to a fixed rule. There are two types of substitution cipher- Mono alphabetic and Poly alphabetic cipher.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following correctly defines poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	a substitution based cipher which uses multiple substitution at different positions
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a substitution based cipher which uses fixed substitution over entire message
((OPTION_C)) This is optional	a transposition based cipher which uses multiple substitution at different positions
((OPTION_D)) This is optional	A transposition based cipher which uses fixed substitution over entire message
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Poly alphabetic cipher is a type of substitution cipher. It uses multiple substitution at different positions in order to cipher the plain text.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a type of poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Rotor cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hill cipher
((OPTION_C)) This is optional	One time pad cipher
((OPTION_D)) This is optional	Affine cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	In poly alphabetic cipher each symbol of plain text is replaced by a different cipher text regardless of its occurrence. Out of the given options, only affine cipher is not a poly alphabetic cipher.

((MARKS)) QUESTION IS OF	2
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	We are provided the plain text "SUN". You need to convert the given plain text into ciphertext under the Ceasar cipher encryption technique. Which of the following options is the correct ciphertext for the given text if the key is 2?
((OPTION_A)) THIS IS MANDATORY OPTION	UWP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NUS
((OPTION_C)) This is optional	WUP
((OPTION_D)) This is optional	QSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>In the Caesar cipher technique, the encryption is performed as follows,</p> $E(P, K) = (P + K) \bmod 26$ <p>Therefore,</p> $E(S, 2) = (18 + 2) \bmod 26 = 20 = U$ $E(U, 2) = (20 + 2) \bmod 26 = 22 = W$ $E(N, 2) = (13 + 2) \bmod 26 = 15 = P$ <p>Hence, the ciphertext is "UWP".</p>

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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following cipher techniques include the involvement of matrix operations in their algorithms of encryption and decryption?
((OPTION_A)) THIS IS MANDATORY OPTION	<u>Hill Cipher</u>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<u>Playfair cipher</u>
((OPTION_C)) This is optional	Both a and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also	The hill cipher includes a square matrix as the key, and in Playfair cipher, we create a 5X5 matrix using the given key string. Hence,

optional	both these ciphers include the use of matrices.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Playfair cipher is an example of _____
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C)) This is optional	transposition cipher
((OPTION_D)) This is optional	additive cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	Playfair cipher is a substitution cipher. It falls under the category of poly alphabetic cipher as it uses multiple substitution at different positions in order to cipher the plain text.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Encryption in Playfair cipher is done using _
((OPTION_A)) THIS IS MANDATORY OPTION	a 5x5 table
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a 13x2 table
((OPTION_C)) This is optional	vigenere table
((OPTION_D)) This is optional	a 6x6 table
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A

((EXPLANATION)) This is also optional	
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the plain text corresponding to cipher text "BPKYFS" if playfair cipher is used with keyword as "SECRET" (assuming j is combined with i)?
((OPTION_A))  THIS IS MANDATORY OPTION	INDIAN
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	WORLD
((OPTION_C))  This is optional	DOLLAR
((OPTION_D))  This is optional	HELLO
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C

((EXPLANATION)) This is also optional	To decrypt the message we follow the reverse procedure. The table is formed in the same manner. Applying this we get the plain text to be "DOLLAR".
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair are identical?
((OPTION_A)) THIS IS MANDATORY OPTION	then that pair is neglected
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a null(or x) is added in between the letters
((OPTION_C)) This is optional	one of the identical letter is replaced by some other letter
((OPTION_D)) This is optional	then both of the letters are replaced by the letter appearing just next in the row
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	In playfair cipher if the letters in a pair are identical then a null is added in between the letters. Any letter can be used as a null as long as that letter is not the one being repeated.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same row?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter at the corner of the row
((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	If the letters in a pair appear in same row then they are replaced by the letters appearing immediately right to them respectively. If the element to be replaced appears at the corner of the row then we wrap around to the left side of that row.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the ciphered text if the string “SANFOUNDRY” is given as input to the code of playfair cipher with keyword as “SECRET” (assuming j is combined with i)?
((OPTION_A)) THIS IS MANDATORY OPTION	ZHQAPNPAFR
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AHQAPNPAFR
((OPTION_C)) This is optional	HAQAPNPAFR
((OPTION_D)) This is optional	QHAAPNPAFR
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	B

E	
((EXPLANATION)) This is also optional	<p>For encrypting the plain text using playfair cipher we use a <math>5 \times 5</math> table that is constructed by using keyword. Then we apply rules for encryption in order to get the ciphered text. Table is given as under-</p> <p>S E C R T</p> <p>A B D F G</p> <p>H I K L M</p> <p>N O P Q U</p> <p>V W X Y Z</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letters at the corner of the row
((OPTION_D))	that pair is neglected

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	If the letters in a pair appear in the same column then they are replaced by the letters appearing immediately below them respectively. If the element to be replaced appears at the corner of the column then we wrap around to the top side of that column.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair does not appear in same row or column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter of the same row at the corner of the rectangle defined by the original pair respectively

((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	If the letters in a pair does not appear in same row or column then they are replaced by the letters of the same row at the corner of the rectangle defined by the original pair respectively. The order of letters should be maintained.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Columnar cipher falls under the category of?
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C))	additive cipher

This is optional	
((OPTION_D)) This is optional	Transposition cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Columnar cipher is a transposition cipher. It falls under the category of transposition cipher as it encrypts the plain text by rearranging its letters.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following ciphered text would have NOT used transposition cipher for encryption of the plain text “CIPHER”?
((OPTION_A)) THIS IS MANDATORY OPTION	EPIHRC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EHIPCR
((OPTION_C))	DTIPRC

This is optional	
((OPTION_D))	HRIPEC
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	We know that transposition cipher encrypts the plain text by shuffling the letters of the plain text. So out of the given options, only “DTIPRC” does not have the same set of letters as “CIPHER”.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many columns do we need to have in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	4
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	5
((OPTION_C))	6

This is optional	
((OPTION_D))	7
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So in this case it will be equal to 6.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the encrypted text corresponding to plain text “CLASSIFIED” using columnar transposition cipher with a keyword as “GAMES”?
((OPTION_A)) THIS IS MANDATORY OPTION	LFDSIASECI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SECIAISDFL
((OPTION_C))	CILFAISESD

This is optional																					
((OPTION_D))	IFSECIAISD																				
This is optional																					
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CH OICE)) Either A or B or C or D or E	D																				
((EXPLANATION )) This is also optional	<p>For encrypting using columnar cipher we have to arrange the letters of the plain text in a table which has the same number of columns as the letters of the keyword. Then the letters of the keyword are arranged in alphabetical order and we read along each column.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>1</td><td>4</td><td>2</td><td>5</td></tr> <tr><td>G</td><td>A</td><td>M</td><td>E</td><td>S</td></tr> <tr><td>C</td><td>L</td><td>A</td><td>S</td><td>S</td></tr> <tr><td>I</td><td>F</td><td>I</td><td>E</td><td>D</td></tr> </table> <p>So the ciphered text will be “IFSECIAISD”.</p>	3	1	4	2	5	G	A	M	E	S	C	L	A	S	S	I	F	I	E	D
3	1	4	2	5																	
G	A	M	E	S																	
C	L	A	S	S																	
I	F	I	E	D																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many rows will the letters of the plain text occupy in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B))	2

THIS IS ALSO MANDATORY OPTION																			
((OPTION_C)) This is optional	3																		
((OPTION_D)) This is optional	4																		
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																			
((CORRECT_CHOICE)) Either A or B or C or D or E	B																		
((EXPLANATION)) This is also optional	<p>Explanation: The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So when we will write the letters of the plain text row wise then there will be 2 rows of plain text in this case. The table is shown below :-</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>S</td><td>E</td><td>C</td><td>R</td><td>E</td><td>T</td> </tr> <tr> <td>1</td><td>S</td><td>A</td><td>N</td><td>F</td><td>O</td><td>U</td> </tr> <tr> <td>2</td><td>N</td><td>D</td><td>R</td><td>Y</td> </tr> </table>	S	E	C	R	E	T	1	S	A	N	F	O	U	2	N	D	R	Y
S	E	C	R	E	T														
1	S	A	N	F	O	U													
2	N	D	R	Y															

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following statement is not true regarding columnar transposition cipher?
((OPTION_A)) THIS IS	probability of error is high while deciphering

MANDATORY OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	it cannot be combined with other ciphers
((OPTION_C)) This is optional	it is a traditional symmetric cipher
((OPTION_D)) This is optional	it is a weak cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Although columnar transposition cipher is a weak cipher in itself. But it can be combined with other substitution ciphers so as to improve its security. The probability of error remains high while decoding columnar cipher as it is a lengthy process

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is another data hiding technique which can be used in conjunction with cryptography for the extra-secure method of protecting data.
((OPTION_A))	Cryptography

THIS IS MANDATORY OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Steganography
((OPTION_C)) This is optional	Tomography
((OPTION_D)) This is optional	Chorography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Steganography is the technique of hiding data in another raw data. Steganography is another data hiding technique which can be used in conjunction with cryptography for an extra-secure method of protecting data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is hiding of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Steganography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Steganography helps in hiding any form of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ tool permits security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Chorography
((OPTION_D))  This is optional	Steganography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	A steganography tool is a software tool that permits a security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main motive for using steganography is that hackers or other users can hide a secret message behind a _____

((OPTION_A))  THIS IS MANDATORY OPTION	special file
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	ordinary file
((OPTION_C))  This is optional	program file
((OPTION_D))  This is optional	encrypted file
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	The main motive for using steganography is that hackers or other users can hide a secret message behind ordinary files. Some steganography tools are SSuite Picsel, rSteg etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	People will normally think it as a normal/regular file and your secret message will pass on without any _____

((OPTION_A)) THIS IS MANDATORY OPTION	Suspicion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	cracking
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Steganography techniques help hackers or other users to conceal covert message behind regular files. People will normally think it as a normal/regular file and your secret message will pass on without any suspicion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	By using _____ you can diminish the chance of data leakage

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C)) This is optional	Chorography
((OPTION_D)) This is optional	Steganography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Hackers or other cyber criminals target ordinary files to hide different data or information within another data file. By using steganography, you can diminish the chance of data leakage.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Which of the following is a mode of operation for the Block ciphers in cryptography?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Electronic Code Book (ECB)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher Block Chaining (CBC)
((OPTION_C)) This is optional	Counter (CTR) mode
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	For which of the following should EBC (Electronic Code Book) process not be used for encryption?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	For large block sizes
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	For fixed block sizes
((OPTION_C)) This is optional	For small block sizes
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	It is preferred that the block size in the ECB technique must be greater than 64 bits. If not, the text is padded to make it of the required length. This is due to some particular words and phrases that may be reused again often so that the same repetitive part of ciphertext can emerge as mixed.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	Which of the following is the main disadvantage of the ECB (Electronic Code Book)?

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	It requires large block size
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Padding is done to make the plain text divisible into blocks of fixed size
((OPTION_C)) This is optional	It is prone to cryptanalysis since there is a direct relationship between plain text and cipher text.
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	In <u>ECB</u> , there lies a direct relation between the plain text and the ciphertext. Therefore, it is easy for an outsider to break the encryption logic and steal the data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options is not correct according to the definition of the Cipher Block Chaining (CBC)?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC is a mode of operation for stream ciphers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Initialization vector (IV) is used in CBC in the initial phase.
((OPTION_C)) This is optional	It has better resistive nature towards cryptanalysis than ECB
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<a href="#">CBC</a> which stands for Cipher Block chaining is a mode of operation for block ciphers and not for stream ciphers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following modes of operations can be followed for both stream ciphers as well as block ciphers?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC (Cipher Block Chaining)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECB (Electronic Code Book)
((OPTION_C)) This is optional	CFB (Cipher text Feed Back)
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	<b>CFB</b> is primarily a mode to derive some characteristics of a stream cipher from a block cipher on the cryptography in cryptoanalysis.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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<p>((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO</p>	<p>All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?</p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift rows</li> <li>iii. Mix columns</li> <li>iv. Add round key</li> </ul>
<p>((OPTION_A)) THIS IS MANDATORY OPTION</p>	<p>i</p>
<p>((OPTION_B)) THIS IS ALSO MANDATORY OPTION</p>	<p>iii</p>
<p>((OPTION_C)) This is optional</p>	<p>All of the mentioned</p>
<p>((OPTION_D)) This is optional</p>	<p>None of the mentioned</p>
<p>((OPTION_E)) This is optional. If optional keep empty so that system will skip this option</p>	
<p>((CORRECT_CHOICE)) Either A or B or C or D or E</p>	<p>B</p>
<p>((EXPLANATION)) This is also optional</p>	<p>In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.</p>

<p>((MARKS))</p>	<p>1</p>
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"The number of rounds in the AES algorithm depends upon the key size being used." Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	128 key size: 10 rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	192 key size: 12 rounds
((OPTION_C)) This is optional	256 key size: 14 rounds
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Avalanche effect
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Completeness
((OPTION_C)) This is optional	Both a. and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For the AES-128 algorithm there are _____ similar rounds and _____ round is different.
((OPTION_A)) THIS IS MANDATORY OPTION	2 pair of 5 similar rounds ; every alternate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	9 ; the last
((OPTION_C)) This is optional	8 ; the first and last
((OPTION_D)) This is optional	10 ; no
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the 4 operations are false for each round in the AES algorithm? i) Substitute Bytes ii) Shift Columns iii) Mix Rows iv) XOR Key
((OPTION_A)) THIS IS MANDATORY OPTION	i) only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii) iii) and iv)
((OPTION_C)) This is optional	ii) and iii)
((OPTION_D)) This is optional	only iv
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES rounds involve substitute bytes, shift rows, mix columns and addition of round key.

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There is an addition of round key before the start of the AES round algorithms.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In AES the final round contains only three transformations, and there is an initial single transformation (Add Round Key) before the first round which can be considered Round 0. Each transformation takes 4x4 matrixes as input and produces a 4x4 matrix as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1																
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the Shifted Row transformation for the matrix bellow?  <table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_A))  THIS IS MANDATORY OPTION	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	<table border="1"> <tr> <td>72</td><td>2B</td><td>D7</td><td>FE</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>63</td><td>AD</td><td>01</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	72	2B	D7	FE	A4	6B	6B	77	63	AD	01	F0	30	D7	AF	FE
72	2B	D7	FE														
A4	6B	6B	77														
63	AD	01	F0														
30	D7	AF	FE														
((OPTION_C))  This is optional	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>77</td><td>A4</td><td>6B</td><td>6B</td></tr> <tr> <td>F0</td><td>63</td><td>AD</td><td>01</td></tr> <tr> <td>FE</td><td>30</td><td>D7</td><td>AF</td></tr> </table>	FE	72	2B	D7	77	A4	6B	6B	F0	63	AD	01	FE	30	D7	AF
FE	72	2B	D7														
77	A4	6B	6B														
F0	63	AD	01														
FE	30	D7	AF														
((OPTION_D))  This is optional	<table border="1"> <tr> <td>D7</td><td>FE</td><td>72</td><td>2B</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>01</td><td>AD</td><td>63</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	D7	FE	72	2B	A4	6B	6B	77	01	AD	63	F0	30	D7	AF	FE
D7	FE	72	2B														
A4	6B	6B	77														
01	AD	63	F0														
30	D7	AF	FE														

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The Shift Rows transformation consists of: -Not shifting the first row of the state array at all. -Circularly shifting the second row by one byte to the left. -Circularly shifting the third row by two bytes to the left, and -Circularly shifting the last row by three bytes to the left.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not weak key in DES
((OPTION_A)) THIS IS MANDATORY OPTION	0x0101010101010101
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0xEFABFEFEFEFEFEFE
((OPTION_C)) This is optional	0x1F1F1F1F0E0E0E0E
((OPTION_D))	0xFFFFFFFFFFFFFF

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple-DES has _____ keys.
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	2
((OPTION_C)) This is optional	5
((OPTION_D))	4

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a encryption technique which uses two instance of DES on same plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	Double DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripple DES
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack which can be used to break through double DES.
((OPTION_A)) THIS IS MANDATORY OPTION	Brute force
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	meet-in-the middle
((OPTION_C)) This is optional	Timing
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple DES involve __
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption, Decryption, Decryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption ,Encryption, Encryption
((OPTION_C)) This is optional	Decryption ,Encryption, Decryption
((OPTION_D))	Encryption, Decryption, Encryption

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ involves feeding the successive output blocks from the underlying block cipher back to it
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	OFB
((OPTION_D))	CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is counter-based version of CFB mode without the feedback
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	counter
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below mode is independent of previous output
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	CFB
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Errors get propagated in all modes except ___and ___
((OPTION_A)) THIS IS MANDATORY OPTION	ECB,COUNTER
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC,COUNTER
((OPTION_C)) This is optional	CFB,COUNTER
((OPTION_D))	OFB,CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Patterns are not preserved in ___ mode
((OPTION_A)) THIS IS MANDATORY OPTION	CBC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CFB
((OPTION_C)) This is optional	Both CBC and CFB
((OPTION_D))	ECB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A small change in plaintext results in the very great change in the cipher text indicates which characteristic
((OPTION_A)) THIS IS MANDATORY OPTION	completeness
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Strong key
((OPTION_C)) This is optional	Avalanche effect
((OPTION_D))	All of the above

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ ciphers, the plaintext is processed one bit at a time i.e. one bit of plaintext is taken, and a series of operations is performed on it to generate one bit of cipher text.
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	More number of _____ provide more secure system in feistel cipher.
((OPTION_A)) THIS IS MANDATORY OPTION	rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	keys
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	Function
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The number of rounds used in a Feistel Cipher depends on desired security from the system. More number of rounds provide more secure system. But at the same time, more rounds mean the inefficient slow encryption and decryption processes..

## Question Bank for Information and Cyber Security (ICS)

### 1. Why would a hacker use a proxy server?

- A. To create a stronger connection with the target.
- B. To create a ghost server on the network.
- C. To obtain a remote access connection.
- D. To hide malicious activity on the network.

**Correct Answer – D**

**Explanation –** Proxy servers exist to act as an intermediary between the hacker and the target and services to keep the hacker anonymous to the network.

### 2. What type of symmetric key algorithm using a streaming cipher to encrypt information?

- A. RC4
- B. Blowfish
- C. SHA
- D. MD5

**Correct Answer – A**

**Explanation –** RC4 uses streaming ciphers.

### 3. Which of the following is not a factor in securing the environment against an attack on security?

- A. The education of the attacker
- B. The system configuration
- C. The network architecture
- D. The business strategy of the company
- E. The level of access provided to employees

**Correct Answer – D**

**Explanation –** All of the answers are factors supporting the exploitation or prevention of an attack. The business strategy may provide the motivation for a potential attack, but by itself will not influence the outcome.

### 4. What type of attack uses a fraudulent server with a relay address?

- A. NTLM
- B. MITM
- C. NetBIOS
- D. SMB

**Correct Answer – B**

**Explanation –** MITM (Man in the Middle) attacks create a server with a relay address. It is used in SMB relay attacks.

### 5. What port is used to connect to the Active Directory in Windows 2000?

- A. 80
- B. 445
- C. 139
- D. 389

**Correct Answer – D**

**Explanation –** The Active Directory Administration Tool used for a Windows 2000 LDAP client uses port 389 to connect to the Active Directory service.

### 6. To hide information inside a picture, what technology is used?

- A. Rootkits
- B. Bitmapping

- C. Steganography
- D. Image Rendering

**Correct Answer – C**

**Explanation** – Steganography is the right answer and can be used to hide information in pictures, music, or videos.

**7. Which phase of hacking performs actual attack on a network or system?**

- A. Reconnaissance
- B. Maintaining Access
- C. Scanning
- D. Gaining Access

**Correct Answer – D**

**Explanation** – In the process of hacking, actual attacks are performed when gaining access, or ownership, of the network or system. Reconnaissance and Scanning are information gathering steps to identify the best possible action for staging the attack. Maintaining access attempts to prolong the attack.

**8. Attempting to gain access to a network using an employee's credentials is called the mode of ethical hacking.**

- A. Local networking
- B. Social engineering
- C. Physical entry
- D. Remote networking

**Correct Answer – A**

**Explanation** – Local networking uses an employee's credentials, or access rights, to gain access to the network. Physical entry uses credentials to gain access to the physical IT infrastructure.

**9. Which Federal Code applies the consequences of hacking activities that disrupt subway transit systems?**

- A. Electronic Communications Interception of Oral Communications
- B. 18 U.S.C. § 1029
- C. Cyber Security Enhancement Act 2002
- D. 18 U.S.C. § 1030

**Correct Answer – C**

**Explanation** – The Cyber Security Enhancement Act 2002 deals with life sentences for hackers who recklessly endanger the lives of others, specifically transportation systems.

**10. Which of the following is not a typical characteristic of an ethical hacker?**

- A. Excellent knowledge of Windows.
- B. Understands the process of exploiting network vulnerabilities.
- C. Patience, persistence and perseverance.
- D. Has the highest level of security for the organization.

**Correct Answer – D**

**Explanation** – Each answer has validity as a characteristic of an ethical hacker. Though having the highest security clearance is ideal, it is not always the case in an organization.

**11. What is the proper command to perform an Nmap XMAS scan every 15seconds?**

- A. nmap -sX -sneaky
- B. nmap -sX -paranoid
- C. nmap -sX -aggressive
- D. nmap -sX -polite

**Correct Answer – A**

**Explanation** – SX is used to identify a xmas scan, while sneaky performs scans 15 seconds apart.

**12. What type of rootkit will patch, hook, or replace the version of system call in order to hide information?**

- A. Library level rootkits
- B. Kernel level rootkits
- C. System level rootkits
- D. Application level rootkits

**Correct Answer – A**

**Explanation** – Library leve rootkits is the correct answer. Kerel level focuses on replaceing specific code while application level will concentrate on modifying the behavior of the application or replacing application binaries. The type, system level, does not exist for rootkits.

**13. What is the purpose of a Denial of Service attack?**

- A. Exploit a weakness in the TCP/IP stack
- B. To execute a Trojan on a system
- C. To overload a system so it is no longer operational
- D. To shutdown services by turning them off

**Correct Answer – C**

**Explanation** – DoS attacks force systems to stop responding by overloading the processing of the system.

**14. What are some of the most common vulnerabilities that exist in a network or system?**

- A. Changing manufacturer, or recommended, settings of a newly installed application.
- B. Additional unused features on commercial software packages.
- C. Utilizing open source application code
- D. Balancing security concerns with functionality and ease of use of a system.

**Correct Answer – B**

**Explanation** – Linux is an open source code and considered to have greater security than the commercial Windows environment. Balancing security. Ease of use and functionality can open vulnerabilities that already exist. Manufacturer settings, or default settings, may provide basic protection against hacking threats, but need to change to provide advance support. The unused features of application code provide an excellent opportunity to attack and cover the attack.

**15. What is the sequence of a TCP connection?**

- A. SYN-ACK-FIN
- B. SYN-SYN ACK-ACK
- C. SYN-ACK
- D. SYN-SYN-ACK

**Correct Answer – B**

**Explanation** – A three-handed connection of TCP will start with a SYN packet followed by a SYN-ACK packet. A final ACK packet will complete the connection.

**16. What tool can be used to perform SNMP enumeration?**

- A. DNSlookup
- B. Whois
- C. Nslookup
- D. IP Network Browser

**Correct Answer – D**

**Explanation** – SNMPPUtil and IP Network Browser is SNMP enumeration tool

**17. Which ports should be blocked to prevent null session enumeration?**

- A. Ports 120 and 445
- B. Ports 135 and 136
- C. Ports 110 and 137
- D. Ports 135 and 139

**Correct Answer – D**

**Explanation** – Port 139 is the NetBIOS Session port typically can provide large amounts of information using APIs to connect to the system. Other ports that can be blocked in 135, 137,138, and 445.

**18. The first phase of hacking an IT system is compromise of which foundation of security?**

- A. Availability
- B. Confidentiality
- C. Integrity
- D. Authentication

**Correct Answer – B**

**Explanation** – Reconnaissance is about gathering confidential information, such as usernames and passwords.

**19. How is IP address spoofing detected?**

- A. Installing and configuring a IDS that can read the IP header
- B. Comparing the TTL values of the actual and spoofed addresses
- C. Implementing a firewall to the network
- D. Identify all TCP sessions that are initiated but does not complete successfully

**Correct Answer – B**

**Explanation** – IP address spoofing is detectable by comparing TTL values of the actual and spoofed IP addresses

**20. Why would a ping sweep be used?**

- A. To identify live systems
- B. To locate live systems
- C. To identify open ports
- D. To locate firewalls

**Correct Answer – A**

**Explanation** – A ping sweep is intended to identify live systems. Once an active system is found on the network, other information may be distinguished, including location. Open ports and firewalls.

**21. What are the port states determined by Nmap?**

- A. Active, inactive, standby
- B. Open, half-open, closed
- C. Open, filtered, unfiltered
- D. Active, closed, unused

**Correct Answer – C**

**Explanation** – Nmap determines that ports are open, filtered, or unfiltered.

**22. What port does Telnet use?**

- A. 22
- B. 80
- C. 20
- D. 23

**Correct Answer – D**

**Explanation** – Telnet uses port 23.

**23. Which of the following will allow footprinting to be conducted without detection?**

- A. PingSweep
- B. Traceroute
- C. War Dialers
- D. ARIN

**Correct Answer – D**

**Explanation** – ARIN is a publicly accessible database, which has information that could be valuable. Because it is public, any attempt to obtain information in the database would go undetected.

**24. Performing hacking activities with the intent on gaining visibility for an unfair situation is called \_\_\_\_\_.**

- A. Cracking
- B. Analysis
- C. Hacktivism
- D. Exploitation

**Correct Answer – C**

**Explanation** – Hacktivism is the act of malicious hacking for a cause or purpose.

**25. What is the most important activity in system hacking?**

- A. Information gathering
- B. Cracking passwords
- C. Escalating privileges
- D. Covering tracks

**Correct Answer – B**

**Explanation** – Passwords are a key component to access a system, making cracking the password the most important part of system hacking.

**26. A packet with no flags set is which type of scan?**

- A. TCP
- B. XMAS
- C. IDLE
- D. NULL

**Correct Answer – D**

**Explanation** – A NULL scan has no flags set.

**27. Sniffing is used to perform \_\_\_\_\_ fingerprinting.**

- A. Passive stack
- B. Active stack
- C. Passive banner grabbing
- D. Scanned

**Correct Answer – A**

**Explanation** – Passive stack fingerprinting uses sniffing technologies instead of scanning.

**28. Phishing is a form of \_\_\_\_\_.**

- A. Spamming
- B. Identify Theft
- C. Impersonation
- D. Scanning

**Correct Answer – C**

**Explanation** – Phishing is typically a potential attacker posing, or impersonating, a financial institution

**29. Why would HTTP Tunneling be used?**

- A. To identify proxy servers
- B. Web activity is not scanned
- C. To bypass a firewall
- D. HTTP is a easy protocol to work with

**Correct Answer – C**

**Explanation** – HTTP Tunneling is used to bypass the IDS and firewalls present on a network.

**30. Which Nmap scan is does not completely open a TCP connection?**

- A. SYN stealth scan
- B. TCP connect
- C. XMAS tree scan
- D. ACK scan

**Correct Answer – A**

**Explanation** – Also known as a “half-open scanning,” SYN stealth scan will not complete a full TCP connection.

**31. What protocol is the Active Directory database based on?**

- A. LDAP
- B. TCP
- C. SQL
- D. HTTP

**Correct Answer – A**

**Explanation** – Active4 direction in Windows 200 is based on a Lightweight Directory Access Protocol (LDAP).

**32. Services running on a system are determined by \_\_\_\_\_.**

- A. The system’s IP address.
- B. The Active Directory
- C. The system’s network name
- D. The port assigned

**Correct Answer – D**

**Explanation** – Hackers can identify services running on a system by the open ports that are found.

**33. What are the types of scanning?**

- A. Port, network, and services
- B. Network, vulnerability, and port
- C. Passive, active, and interactive
- D. Server, client, and network

**Correct Answer – B**

**Explanation** – The three types of accepted scans are port, network, and vulnerability.

**34. Enumeration is part of what phase of ethical hacking?**

- A. Reconnaissance
- B. Maintaining Access
- C. Gaining Access
- D. Scanning

**Correct Answer – C**

**Explanation** – Enumeration is a process of gaining access to the network by obtaining information on a user or system to be used during an attack.

**35. Keyloggers are a form of \_\_\_\_\_.**

- A. Spyware
- B. Shoulder surfing
- C. Trojan
- D. Social engineering

**Correct Answer – A**

**Explanation** – Keyloggers are a form of hardware or software spyware installed between the keyboard and operating system.

**36. What are hybrid attacks?**

- A. An attempt to crack passwords using words that can be found in dictionary.
- B. An attempt to crack passwords by replacing characters of a dictionary word with numbers and symbols.
- C. An attempt to crack passwords using a combination of characters, numbers, and symbols.
- D. An attempt to crack passwords by replacing characters with numbers and symbols.

**Correct Answer – B**

**Explanation** – Hybrid attacks do crack passwords that are created with replaced characters of dictionary type words.

**37. Which form of encryption does WPA use?**

- A. Shared key
- B. LEAP
- C. TKIP
- D. AES

**Correct Answer – C**

**Explanation** – TKIP is used by WPA

**38. What is the best statement for taking advantage of a weakness in the security of an IT system?**

- A. Threat
- B. Attack
- C. Exploit
- D. Vulnerability

**Correct Answer – C**

**Explanation** – A weakness in security is exploited. An attack does the exploitation. A weakness is vulnerability. A threat is a potential vulnerability.

**39. Which database is queried by Whois?**

- A. ICANN
- B. ARIN
- C. APNIC
- D. DNS

**Correct Answer – A**

**Explanation** – Who utilizes the Internet Corporation for Assigned Names and Numbers.

**40. Having individuals provide personal information to obtain a free offer provided through the Internet is considered what type of social engineering?**

- A. Web-based
- B. Human-based
- C. User-based
- D. Computer-based

**Correct Answer – D**

**Explanation** – Whether using email, a fake website, or popup to entice the user, obtaining information from an individual over the Internet is a computer-based type of social engineering

**1) You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,**

$$A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$$

**Is the given matrix 'A', a valid key to be used for encryption?**

- a. Yes
- b. No
- c. Can't be determined
- d. Data insufficient

**Answer:** b) No

**Explanation:**

For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist. Here, in this case,

$$|A| = 0$$

Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the [Hill cipher](#).

**2) The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?**

- a. The input text is divided into two parts: one being left half and another one being right half.
- b. Swapping of the left and right halves are performed after each round.
- c. The plain text is converted into a matrix form first
- d. None of the above

**Answer:** c) The plain text is converted into a matrix form first

**Explanation:**

The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

**3) Among the following given options, chose the strongest encryption technique?**

- a. DES ( Data Encryption Standard)
- b. Double DES
- c. Triple DES
- d. AES (Advance Encryption Standard)

**Answer:** d) AES (Advance Encryption Standard)

**Explanation:**

It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

**4) What is the full-form of RSA in the RSA encryption technique?**

- a. Round Security Algorithm
- b. Rivest, Shamir, Adleman
- c. Robert, Shamir, Addie
- d. None of the above

**Answer:** b) Rivest, Shamir, Adleman

**Explanation:**

The RSA algorithm was named after the three scientists who developed this technique and the name RSA is itself the abbreviation of their names: Rivest, Shamir, and Adleman.

**5) Consider the following steps,**

- i. Substitution bytes
- ii. Shift Rows
- iii. Mix columns
- iv. Add round key

**The above steps are performed in each round of which of the following ciphers?**

- a. Rail fence cipher
- b. Data Encryption Standard (DES)
- c. Advance Encryption Standard (AES)
- d. None of the above

**Answer:** c) Advance Encryption Standard (AES)

**Explanation:**

Each round of AES includes the mentioned steps.

**1) What is the block size of plain text in SHA- 512 algorithm?**

- a. 512 bits
- b. 1024 bits
- c. 2048 bits

- d. None of the above

**Answer:** b. 1024 bits

**Explanation:**

The SHA- 512 algorithm uses blocks of plain text one at a time to encrypt them into ciphertext. The size of each block in the SHA- 512 algorithm is 1024 bits.

**2) All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?**

- i. Substitution bytes
- ii. Shift rows
- iii. Mix columns
- iv. Add round key

**Options**

- a. i.
- b. iii.
- c. All of the mentioned
- d. None of the mentioned

**Answer:** b. iii.

**Explanation:**

In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.

**3) What does IDEA stand for in the world of cryptography?**

**or**

**The IDEA word in the IDEA algorithm is the abbreviation for which of the following?**

- a. Independent Decryption Environment Analysis
- b. International Defense Encryption Area
- c. International Data Encryption Algorithm
- d. None of the above

**Answer:** c. International Data Encryption Algorithm

**Explanation:**

The IDEA Algorithm stands for "International Data Encryption Algorithm".

**4) How many sub-keys in the total are used by the IDEA for encrypting the plain text into ciphertext?**

- a. 64 sub- keys
- b. 48 sub- keys
- c. 52 sub- keys
- d. Only one key and no subkeys

**Answer:** c. 52 sub- keys

**Explanation:**

There are a total of 8 rounds in the IDEA technique for encryption and each of them uses 6 keys. Apart from that, 4 extra keys are used in the final round that is the output transformation round. This gives us a total of 52 subkeys.

$$(8 \times 6) + 4 = 52$$

**5) "The number of rounds in the AES algorithm depends upon the key size being used."**  
**Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?**

- a. 128 key size: 10 rounds
- b. 192 key size: 12 rounds
- c. 256 key size: 14 rounds
- d. All of the above

**Answer:** d. All of the above

**Explanation:**

All the mentioned options display the correct relation between the number of rounds and the key size used in the AES algorithm.

**6) Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?**

- a. Avalanche effect
- b. Completeness
- c. Both a. and b.
- d. None of the above

**Answer:** c. Both a. and b.

**Explanation:**

Avalanche effect and Completeness are the two characteristic properties of Block ciphers which differ them from stream ciphers.

**81. Public key encryption/decryption is not preferred because**

- a. it is slow

- b.** it is hardware/software intensive
- c.** it has a high computational load
- d.** all of the mentioned

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**Answer:** (d).all of the mentioned

- 82.** Which one of the following is not a public key distribution means?
- a.** Public-Key Certificates
  - b.** Hashing Certificates
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (b).Hashing Certificates

- 83.** What is the PGP stand for?
- a.** Permuted Gap Permission
  - b.** Permuted Great Privacy
  - c.** Pretty Good Permission
  - d.** None of the mentioned

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**Answer:** (d).None of the mentioned

- 84.** PGP makes use of which cryptographic algorithm?
- a.** DES
  - b.** AES

c. RSA

d. Rabin

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**Answer:** (c).RSA

**85.** USENET is related to which of the following Public Key distribution schemes?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (b).Public announcements

**86.** Which of the following public key distribution systems is most secure?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (a).Public-Key Certificates

**87.** Which systems use a timestamp?

i) Public-Key Certificates

ii) Public announcements

iii) Publicly available directories

iv) Public-Key authority

a. i) and ii)

- b.** iii) and iv)
- c.** i) and iv)
- d.** iv) only

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**Answer:** (c).i) and iv)

- 88.** Which of these systems use timestamps as an expiration date?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 89.** Which system uses a trusted third party interface?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 90.** Publicly Available directory is more secure than which other system?
- a.** Public-Key Certificates
  - b.** Public announcements

- c. Public-Key authority
- d. None of the mentioned

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**Answer:** (b).Public announcements

1. A method used by an IDS that involves checking for a pattern to identify unauthorized activity.(*No Answer*)
  - a. **CORRECT:** Pattern Matching
  - b. Session Splicing
  - c. Protocol Decoding
  - d. State Table
2. A list or table of stored by a router (or switch) that controls access to and from a network. (*No Answer*)
  - . State Table
    - a. **CORRECT:** Access Control List (ACL)
    - b. Session Splicing
    - c. Packet Filter
3. An analysis method used by some IDS that looks for instances that are not considered normal behavior. (*No Answer*)
  - . Stateful Inspection
    - a. **CORRECT:** Anomaly Detection
    - b. Evasion
    - c. Pattern Matching
4. Bypassing a device, or performing another action, to attack or place malware on a target network without being detected. (*No Answer*)
  - . Packet Filter
    - a. State Table
    - b. **CORRECT:** Evasion
    - c. Honeypot

5. A type of firewall closely related to a packet filter that can track the status of a connection through use of a state table that keeps track of connection activities.(*No Answer*)
  - . Anomaly Detection
    - a. Protocol Decoding
    - b. **CORRECT:** Stateful Inspection
    - c. State Table
6. A tool that uses the monitoring of network traffic, detection of unauthorized access attempts, and notification of unauthorized access attempts to network administrator.(*No Answer*)
  - . Anomaly Detection
    - a. Access Control List (ACL)
    - b. **CORRECT:** Intrusion Detection System (IDS)
    - c. Session Splicing
7. A type of stateless inspection used in some routers and firewalls to limit flow of traffic to what is on the ACL.(*No Answer*)
  - . **CORRECT:** Packet Filter
    - a. Proxy Server
    - b. Evasion
    - c. State Table
8. A way of looking at raw packet data.(*No Answer*)
  - . Proxy Server
    - a. Session Splicing
    - b. **CORRECT:** Protocol Decoding
    - c. Pattern Matching
9. A server (or application) that intercepts the requests clients make of another server, fills the requests that it can, and then forwards the requests it can't handle on to the other server thus helping to improve performance and security.(*No Answer*)
  - . Honeypot
    - a. **CORRECT:** Proxy Server
    - b. Packet Filter
    - c. State Table

10. A table in which data about connection activity is kept by a stateful firewall.(*No Answer*)
- . Evasion
    - a. **CORRECT:** State Table
    - b. Honeypot
    - c. Proxy Server
11. Something set up on a separate network (or in DMZ) to attract hackers and lure them away from the real network; it logs keystrokes, provides other information about an attacker, and also provides warning that someone is trying to attack your network.(*No Answer*)
- . Proxy Server
    - a. State Table
    - b. Evasion
    - c. **CORRECT:** Honeypot
12. A way to change network address information in IP packet headers with a router by connecting multiple computers using one IP address connected to the Internet (or IP network) to convert many private addresses into one public address.(*No Answer*)
- . Access Control List (ACL)
    - a. **CORRECT:** Network Address Translation (NAT)
    - b. Anomaly Detection
    - c. Intrusion Detection System (IDS)
13. A method of avoiding detection by an IDS by sending portions of a request in different packets.(*No Answer*)
- . **CORRECT:** Session Splicing
    - a. Protocol Decoding
    - b. Pattern Matching
    - c. Evasion

1.

What are drawbacks of the host based IDS ?

- A.) Unselective logging of messages may increase the audit burdens
- B.) Selective logging runs the risk of missed attacks
- C.) They are very fast to detect

- D.) They have to be programmed for new patterns

**Show Answer**

**Answer: Option 'A'**

**Unselective logging of messages may increase the audit burdens**

2.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

3.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

4.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

5.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider

- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

6.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

7.

What are characteristics of stack based IDS ?

- A.) They are integrated closely with the TCP/IP stack and watch packets
- B.) The host operating system logs in the audit information
- C.) It is programmed to interpret a certain series of packets
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They are integrated closely with the TCP/IP stack and watch packets**

8.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider
- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

9.

What are characteristics of Network based IDS ?

- A.) They look for attack signatures in network traffic
- B.) Filter decides which traffic will not be discarded or passed
- C.) It is programmed to interpret a certain series of packet
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They look for attack signatures in network traffic**

10.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

11.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

1. -systematic tracking of incoming and outgoing traffic: to ascertain how an attack was carried out or how an event occurred on a network.

-intruders and network users often leave trail behind

-identify locations where relevant digital evidence exists

-crucial when developing data map of digital evidence(*No Answer*)

- a. SIM Cards
  - b. Windows Registry
  - c. **CORRECT: Network Forensics**
  - d. Drive Slack
2. -personal digital assistant: can be separated devices from mobile phones
- PDA houses a microprocessor, ROM, RAM, disk drive and various components
- most common PDA, although not referred to as such:IPAD(*No Answer*)
- . Partition
    - a. SIM Cards
    - b. EEPROM
    - c. **CORRECT: PDA's**
3. -a logical drive(*No Answer*)
- . EEPROM
    - a. PDA's
    - b. SIM Cards
    - c. **CORRECT: Partition**
4. - .EVE -> .DFT -> IOLogErrors
- .DD -> .DFT -> IOLogErrors -> MD5(*No Answer*)
- . Additional SIM Card Purposes
    - a. Types of The Formats ProDiscover Creates
    - b. **CORRECT: Files Found When Acquisition is Done (ProDiscover)**
    - c. Mobile Forensics Equipment
5. -allows you to create a representation of another computer on an existing physical computer.
- a virtual machine is just a few files on your hard drive: must allocate space to it; dynamic or static
- a virtual machine recognizes components of the physical machine its on: virtual OS is limited by the physical machines O/S and RAM. (*No Answer*)

- . Partition
  - a. **CORRECT:** Virtual Machine
  - b. Drive Slack
  - c. SIM Cards
- 6. Considerations
  - determine the scope of the investigation.
  - determine what the case requires
  - whether you should collect all info
  - what to do in case of scope creep
- \*the key is to start with a plan but remain flexible in the face of new evidence(*No Answer*)
- . **CORRECT:** Examination Plan
  - a. Drive Slack
  - b. Partition
  - c. SIM Cards
- 7. Can be exported as:
  - RTF ~good for thumbnails and book marks
  - TEXT~plain text(*No Answer*)
- . Drive Slack
  - a. Write Blockers
  - b. Windows Registry
  - c. **CORRECT:** ProDiscover Report
- 8. -UNIX DD~most common raw image format
  - .EVE~has case metadata information(*No Answer*)
- . EnCase Output Formats
  - a. Five Major Categories
  - b. ProDiscover Report
  - c. **CORRECT:** Types of The Formats ProDiscover Creates
- 9. -electronically erasable programmable read-only memory
  - how phones store system data

-enables service providers to reprogram phones without having to physically access memory chips

-OS is stored in ROM: nonvolatile memory(*No Answer*)

- . Partition
  - a. file system
  - b. **CORRECT: EEPROM**
  - c. SIM Cards

10. -file manipulation: file names and extensions/ hidden property

-disk manipulation: hidden partitions/bad clusters

-encryption: bit shifting/stenography(*No Answer*)

- . Windows Registry
  - a. Examination Plan
  - b. Virtual Machine
  - c. **CORRECT: Data-hiding Techniques**

11. -gives us a road map to data on a disk

-type of file system an OS used determines how data is stored on the disk(*No Answer*)

- . **CORRECT: file system**
  - a. Drive Slack
  - b. EEPROM
  - c. SIM Cards

12. -the main concerns with mobile devices are loss of power and synchronization with PC's or the cloud (wired or wireless).

-all mobile devices have volatile memory that may contain valuable information: making sure they don't lose power before you can retrieve RAM data is critical.

-isolated the device from incoming signals with one of the following options: shielded container (paint can, enclosures), use the Faraday Bag, use eight layers of anti-static bags, aluminum foil.

-if device is not isolated, the data of the device will continue to change while in custody of the specialist.(*No Answer*)

- . Additional SIM Card Purposes
  - a. Network Forensics
  - b. **CORRECT:** Acquisition Procedures for Mobile Devices
  - c. Challenges With Mobile Devices

13. -acquisition~preservation~collection

-validation~discrimination~culling

~examination~extraction~review

~reconstruction~analysis

~reporting~presentation~production(*No Answer*)

- . Network Forensics
  - a. **CORRECT:** Five Major Categories
  - b. SIM Cards
  - c. Write Blockers

14. -a database that stores hardware and software configuration information, network connections, user preferences, and setup information.

-can contain valuable info about current/past applications and user created information(*No Answer*)

- . SIM Cards
  - a. **CORRECT:** Windows Registry
  - b. file system
  - c. Write Blockers

15. -unused space in a cluster between the end of an active file and the end of a cluster. (Includes RAM slack and file slack)(*No Answer*)

- . SIM Cards
  - a. file system

- b. Write Blockers
- c. **CORRECT: Drive Slack**

16. -subscribers identity module cards

-found most commonly in GSM devices

-microprocessor and from 16KB to 4MB EEPROM

-GSM refers to mobile phones as "mobile station" and divides a station into two parts: the sim card and the mobile equipment and common network in global networks

-portability of information makes SIM cards versatile(*No Answer*)

- . EEPROM
  - a. PDA's
  - b. **CORRECT: SIM Cards**
  - c. Drive Slack

17. -EnCase (E01)

-RAW (DD)

-SMART (S01)

-Sleuth Kit (AFF)(*No Answer*)

- . Five Major Categories
  - a. **CORRECT: Different FTK Output Formats**
  - b. EnCase Output Formats
  - c. Network Forensics

18. -How long a piece of information lasts on a system versus data that must be collected and preserved before its lost, corrupted, or backed up.

Order:

- 1-live network devices (switches/routers)
- 2-live computers/laptops (RAM and processes)
- 3-live other devices (smartphones, PDA's)

4-Devices/computers already OFF

5-Removable media/cables-adapters/documents(*No Answer*)

. **CORRECT:** Order of Volatility

- a. Partition
- b. Drive Slack
- c. Network Forensics

19. -devices are 'live' computers; traditional "stand-alone OFF computers" approach may be inadequate

-devices are connected to 'live' wireless networks; traditional "disconnect" or "segregate" approach network forensics may be inadequate

-devices lack hardware, software and operating system standardization; many variables affect forensic and eDiscovery techniques and analysis results.

-devices are dynamic in location; communications and operability; computers are mostly static.*(No Answer)*

. **CORRECT:** Challenges With Mobile Devices

- a. Write Blockers
- b. Network Forensics
- c. Acquisition Procedures for Mobile Devices

20. -analog

-digital personal communications service (PC's)

-third-generation (3G and 4G): increased bandwidth

\*continuing to evolve*(No Answer)*

. Data-hiding Techniques

- a. **CORRECT:** Three Generations of Mobile Phone Technology
- b. Order of Volatility
- c. Challenges With Mobile Devices

21. -identifies the subscriber to the network

-stores personal information

-stores address books and messages

-stores service-related information(*No Answer*)

- . Five Major Categories
  - a. ProDiscover Report
  - b. **CORRECT:** Additional SIM Card Purposes
  - c. SIM Cards

22. -hardware utilized for protecting source/hard drive from data alteration/tampering while collecting, preserving, and reviewing CSI.

-prevents operating systems and computer programs from making "writes" to the hard drive being acquired, examined, or analyzed.

-write blockers sits between the suspect/source drive and your analysis computer. (It is usually a hardware device, but software based write blockers may be utilized.*(No Answer)*

- . file system
  - a. Drive Slack
  - b. SIM Cards
  - c. **CORRECT:** Write Blockers

23. primary Windows based:

-EnCase

-Forensic Tool Kit (FTK)

-ProDiscover

-OSForensics

primarily Linux based:

-Sleuth Kit and Autopsy

-Helix

-Knoppix STD

-SMART(*No Answer*)

- . Computer Forensic and EDiscovery Tool Needs

- a. **CORRECT:** Computer Forensic Software Tools
  - b. Network Forensics
  - c. Mobile Forensics Equipment
24. -SIM card readers: a combination hardware/software device used to access the SIM card. You need to be in a forensic lab equip with appropriate anti-static devices.

-general forensic procedure for SIM cards:

- 1-remove the back panel of device
- 2-remove the battery
- 3-remove the SIM card
- 4-insert the SIM card into the card reader
- 5-extract relevant information

-a variety of SIM card readers are on the market: some are forensically sound and some are not

-documenting messages that haven't been read yet is critical: use a video camera to capture each screen, if data cannot be extracted with forensic hardware/software

-mobile forensic tools and utilities:

- Ramsey forensic text enclosure (hardware)
- SIM card reader (hardware)
- Paraben Device Seizure (software)
- BitPim (software)
- Susteen SecureView (software)
- EnCase and FTK (software)(*No Answer*)

- . file system
  - a. Network Forensics
  - b. **CORRECT:** Mobile Forensics Equipment
  - c. Computer Forensic Software Tools

25. -EX01

-E01 (Legacy)(*No Answer*)

- . **CORRECT:** EnCase Output Formats
  - a. Different FTK Output Formats
  - b. EEPROM

c. Network Forensics

26. look for versatility, flexibility, and robustness:

- Lab OS
- File System
- Automated Features
- Venders Reputation
- Acceptance by forensic community
- documented testing and validation

-Keep in mind what application files and operating system you'd be analyzing(*No Answer*)

. **CORRECT:** Computer Forensic and EDiscovery Tool Needs

- a. Mobile Forensics Equipment
- b. Types of The Formats ProDiscover Creates
- c. Computer Forensic Software Tools

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a threat to information security?
((OPTION_A)) THIS IS MANDATORY OPTION	Disaster
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Eavesdropping
((OPTION_C)) This is optional	Information leakage
((OPTION_D)) This is optional	Unchanged default password
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Disaster, eavesdropping and information leakage come under information security threats whereas not changing the default password of any system, hardware or any software comes under the category of vulnerabilities that the user may pose to its system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compromising confidential information comes under
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	Threats are anything that may cause damage or harm to a computer system, individual or any information. Compromising of confidential information means extracting out sensitive data from a system by illegal manner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Lack of access control policy is a
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Access control policies are incorporated to a security system for restricting of unauthorised access to any logical or physical system. Every security compliance program must need this as a fundamental component. Those systems which lack this feature is vulnerable.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Possible threat to any information cannot be
((OPTION_A)) THIS IS MANDATORY OPTION	reduced
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transferred
((OPTION_C)) This is optional	protected
((OPTION_D)) This is optional	ignored
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	When there lies a threat to any system, safeguards can be implemented, outsourced, distributed or transferred to some other system, protected using security tools and techniques but cannot be ignored.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	According to the CIA triad the three components that a security need is the Confidentiality, Integrity, Availability (as in short read as

		
CIA).		

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When you use the word _____ it means you are protecting your data from getting disclosed.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	

((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Confidentiality is what every individual prefer in terms of physical privacy as well as digital privacy. This term means our information needs to be protected from getting disclose to unauthorised parties, for which we use different security mechanisms like password protection, biometric security, OTPs (One Time Passwords) etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ means the protection of data from modification by unknown users.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Non-repudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	A information only seems valuable if it is correct and do not get modified during its journey in the course of arrival. The element integrity makes sure that the data sent or generated from other end is correct and is not modified by any unauthorised party in between.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When integrity is lacking in a security system, _____ occurs.
((OPTION_A)) THIS IS MANDATORY OPTION	Database hacking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data deletion
((OPTION_C)) This is optional	Data tampering
((OPTION_D)) This is optional	Data leakage
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The term data tampering is used when integrity is compromised in any security model and checking its integrity later becomes costlier. Example: let suppose you sent \$50 to an authorised person and in between a Man in the Middle (MiTM) attack takes place and the value has tampered to \$500. This is how integrity is compromised.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	of information means, only authorised users are capable of accessing the information.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional.	

If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Information seems useful only when right people (authorised users) access it after going through proper authenticity check. The key element availability ensures that only authorised users are able to access the information.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
((OPTION_A)) THIS IS MANDATORY OPTION	They help understanding hacking better
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	They are key elements to a security breach
((OPTION_C)) This is optional	They help understands security and its components better
((OPTION_D)) This is optional	They help to understand the cyber-crime better
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The four elements of security viz. confidentiality, integrity, authenticity & availability helps in better understanding the pillars of security and its different components.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This helps in identifying the origin of information and authentic user. This referred to here as
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The key element, authenticity helps in assuring the fact that the information is from the original source.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data _____ is used to ensure confidentiality.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Locking
((OPTION_C)) This is optional	Deleting
((OPTION_D)) This is optional	Backup
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Data encryption is the method of converting plain text to cipher-text and only authorised users can decrypt the message back to plain text. This preserves the confidentiality of data

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is not a proper method of maintaining AUTHENTICATION?
((OPTION_A)) THIS IS MANDATORY OPTION	Biometric verification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ID and password based verification
((OPTION_C)) This is optional	2-factor authentication
((OPTION_D)) This is optional	switching off the phone
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Switching off the phone in the fear of preserving the confidentiality of data is not a proper solution for data confidentiality. Fingerprint detection, face recognition, password-based authentication, two-step verifications are some of these.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data integrity gets compromised when _____ and _____ are taken control off.
((OPTION_A)) THIS IS MANDATORY OPTION	Access control, file deletion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Network, file permission
((OPTION_C)) This is optional	Access control, file permission
((OPTION_D)) This is optional	Network, system

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The two key ingredients that need to be kept safe are: access control & file permission in order to preserve data integrity.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One common way to maintain data availability is
((OPTION_A)) THIS IS MANDATORY OPTION	Data clustering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data backup
((OPTION_C)) This is optional	Data recovery
((OPTION_D)) This is optional	Data Altering

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	For preventing data from data-loss, or damage data backup can be done and stored in a different geographical location so that it can sustain its data from natural disasters & unpredictable events.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hackers who help in finding bugs and vulnerabilities in a system & don't intend to crack a system are termed as
((OPTION_A)) THIS IS MANDATORY OPTION	Black Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Grey Hat Hackers
((OPTION_D)) This is optional	Red Hat Hackers

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	White Hat Hackers are cyber security analysts and consultants who have the intent to help firms and Governments in the identification of loopholes as well as help to perform penetration tests for securing a system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the legal form of hacking based on which jobs are provided in IT industries and firms?
((OPTION_A)) THIS IS MANDATORY OPTION	Cracking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Non ethical Hacking
((OPTION_C)) This is optional	Ethical hacking
((OPTION_D))	Hactivism

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Ethical Hacking is an ethical form of hacking done by white-hat hackers for performing penetration tests and identifying potential threats in any organizations and firms.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	They are nefarious hackers, and their main motive is to gain financial profit by doing cyber crimes. Who are "they" referred to here?
((OPTION_A)) THIS IS MANDATORY OPTION	Gray Hat Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Hactivists
((OPTION_D))	Black Hat Hackers

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Black Hat hackers also termed as 'crackers' and are a major type of cyber criminals who take unauthorized access in user's account or system and steal sensitive data or inject malware into the system for their profit or to harm the organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are the combination of both white as well as black hat hackers.
((OPTION_A)) THIS IS MANDATORY OPTION	Grey Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Green Hat hackers
((OPTION_C)) This is optional	Blue Hat Hackers

((OPTION_D)) This is optional	Red Hat Hacker
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Grey Hat Hackers have a blending character of both ethical as well as un-ethical hacker. They hack other's systems for fun but do not harm the system, exploits bugs and vulnerabilities in network without the knowledge of the admin or the owner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The amateur or newbie in the field of hacking who don't have many skills about coding and in-depth working of security and hacking tools are called _____
((OPTION_A)) THIS IS MANDATORY OPTION	Sponsored Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hactivists
((OPTION_C))	Script Kiddies

This is optional	
((OPTION_D))	Whistle Blowers
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Script Kiddies are new to hacking and at the same time do not have many interests in developing coding skills or find bugs of their own in systems; rather they prefer downloading of available tools (developed by elite hackers) and use them to break any system or network. They just try to gain attention of their friend circles.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suicide Hackers are those _____
((OPTION_A)) THIS IS MANDATORY OPTION	who break a system for some specific purpose with or without keeping in mind that they may suffer long term imprisonment due to their malicious activity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	individuals with no knowledge of codes but an expert in using hacking tools

((OPTION_C)) This is optional	who know the consequences of their hacking activities and hence try to prevent them by erasing their digital footprints
((OPTION_D)) This is optional	who are employed in an organization to do malicious activities on other firms
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Suicide hackers are those who break into any network or system with or without knowing the consequences of the cyber crime and its penalty. There are some suicide hackers who intentionally do crimes and get caught to bring their names in the headlines.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Criminal minded individuals who work for terrorist organizations and steal information of nations and other secret intelligence are _____
((OPTION_A)) THIS IS MANDATORY OPTION	State sponsored hackers
((OPTION_B)) THIS IS ALSO MANDATORY	Blue Hat Hackers

OPTION	
((OPTION_C)) This is optional	Cyber Terrorists
((OPTION_D)) This is optional	Red Hat Hackers
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Cyber Terrorists are very expert programmers and cyber criminals who hide themselves while doing malicious activities over the internet and they are smart enough to hide themselves or their tracks of action. They are hired for gaining unauthorised access to nation's data centres or break into the network of intelligence agencies.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are those individuals who maintain and handles IT security in any firm or organization.
((OPTION_A)) THIS IS MANDATORY OPTION	IT Security Engineer
((OPTION_B))	Cyber Security Interns

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Software Security Specialist
((OPTION_D)) This is optional	Security Auditor
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is an intermediary level of position of an individual in an organization or firm who builds and preserves different systems and its associated security tools of the firm of organization to which he/she belongs.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Role of security auditor is to _____
((OPTION_A)) THIS IS MANDATORY OPTION	secure the network

((OPTION_B)) THIS IS ALSO MANDATORY OPTION	probe for safety and security of organization's security components and systems
((OPTION_C)) This is optional	detects and prevents cyber attacks and threats to organization
((OPTION_D)) This is optional	does penetration testing on different web applications
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Security auditors are those who conduct auditing of various computer and network systems on an organization or company and reports the safety and security issues as well as helps in suggesting improvements or enhancements in any particular system that is threat prone.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are senior level corporate employees who have the role and responsibilities of creating and designing secured network or security structures.
((OPTION_A)) THIS IS MANDATORY	Ethical Hackers

OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Chief Technical Officer
((OPTION_C)) This is optional	IT Security Engineers
((OPTION_D)) This is optional	Security Architect
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Security architect are those senior grade employees of an organization who are in charge of building, designing, implementing and testing of secured network topologies, protocols as well as secured computers in an organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Governments hired some highly skilled hackers. These types of hackers are termed as _____
((OPTION_A)) THIS IS	Special Hackers

<b>MANDATORY OPTION</b>	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Government Hackers
((OPTION_C))  This is optional	Cyber Intelligence Agents
((OPTION_D))  This is optional	Nation / State sponsored hackers
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Nation / State sponsored hackers are specific individuals who are employed or hired by the government of that nation or state and protect the nation from cyber terrorists and other groups or individuals and to reveal their plans, communications and actions.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The full form of Malware is _____
((OPTION_A))	Malfunctioned Software

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Multipurpose Software
((OPTION_C))  This is optional	) Malicious Software
((OPTION_D))  This is optional	Malfunctioning of Security
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Different types of harmful software and programs that can pose threats to a system, network or anything related to cyberspace are termed as Malware. Examples of some common malware are Virus, Trojans, Ransomware, spyware, worms, rootkits etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who deploy Malwares to a system or network?

((OPTION_A)) THIS IS MANDATORY OPTION	Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Criminal organizations, gray hat hackers, Malware developers, Penetration testers
((OPTION_C)) This is optional	) Criminal organizations, Black hat hackers, software developers, cyber-terrorists
((OPTION_D)) This is optional	Criminal organizations, White hat hackers, malware developers, cyber-terrorists
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Criminal-minded organizations, groups and individuals cyber-terrorist groups, Black hat hackers, malware developers etc are those who can deploy malwares to any target system or network in order to deface that system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	_____ is a code injecting method used for attacking the database of a system / website.

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	HTML injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SQL Injection
((OPTION_C)) This is optional	Malicious code injection
((OPTION_D)) This is optional	XML Injection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	SQLi (Structured Query Language Injection) is a popular attack where SQL code is targeted or injected; for breaking the web application having SQL vulnerabilities. This allows the attacker to run malicious code and take access to the database of that server.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN	This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here?

CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	SQL injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	HTML Injection
((OPTION_C)) This is optional	Cross Site Scripting (XSS)
((OPTION_D)) This is optional	Cross Site Request Forgery (XSRF)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	XSS attack can be infused by putting the malicious code (which gets automatically run) in any comment section or feedback section of any webpage (usually a blogging page). This can hamper the reputation of a site and the attacker may place any private data or personal credentials.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A))  THIS IS MANDATORY OPTION	Cyber-crime
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Cyber Attack
((OPTION_C))  This is optional	System hijacking
((OPTION_D))  This is optional	Digital crime
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cyber attack is an umbrella term used to classify different computer & network attacks or activities such as extortion, identity theft, email hacking, digital spying, stealing hardware, mobile hacking and physical security breaching.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a set of conventions & rules set for communicating two or more devices residing in the same network?
((OPTION_A))  THIS IS MANDATORY OPTION	Security policies
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Protocols
((OPTION_C))  This is optional	Wireless network
((OPTION_D))  This is optional	Network algorithms
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Network protocols are designed with mechanisms for identifying devices and make connections between them. In addition, some proper rules are defined as to how data packets will be sent and received.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The field that covers a variety of computer networks, both public and private, that are used in everyday jobs
((OPTION_A)) THIS IS MANDATORY OPTION	Artificial Intelligence
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ML
((OPTION_C)) This is optional	Network Security
((OPTION_D)) This is optional	IT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Network security covers a variety of computer networks, both private and public. Everyday jobs like conducting transactions and communications among business and government agencies etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network Security provides authentication and access control for resources.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is not an objective of network security?
((OPTION_A)) THIS IS MANDATORY OPTION	Identification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	Access control
((OPTION_D)) This is optional	Lock
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The Identification, Authentication and Access control are the objectives of network security. There is no such thing called lock.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is a part of network identification?
((OPTION_A)) THIS IS MANDATORY OPTION	UserID
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Password
((OPTION_C)) This is optional	OTP
((OPTION_D)) This is optional	fingerprint
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The answer is UserID. UserID is a part of identification. UserID can be a combination of username, user student number etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of verifying the identity of a user.
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Verification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	It is called an authentication. It is typically based on passwords, smart card, fingerprint, etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security features that control that can access resources in the OS
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Access control
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Access control refers to the security features. Applications call access control to provide resources

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm in encryption is called
((OPTION_A)) THIS IS MANDATORY OPTION	Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Procedure
((OPTION_C)) This is optional	Cipher
((OPTION_D)) This is optional	Module
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	An algorithm used in encryption is referred to as a cipher. cipher is an algorithm for performing encryption or decryption

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The information that gets transformed in encryption is
((OPTION_A)) THIS IS MANDATORY OPTION	Plain text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Parallel text
((OPTION_C)) This is optional	Encrypted text
((OPTION_D)) This is optional	Decrypted text
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The text that gets transformed is called plain text. The algorithm used is called cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The type of threats on the security of a computer system or network are..... i) Interruption ii) Interception iii) Modification iv) Creation v) Fabrication
((OPTION_A)) THIS IS MANDATORY OPTION	i, ii, iii and iv only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii, iii, iv and v only
((OPTION_C)) This is optional	i, ii, iii and v only
((OPTION_D)) This is optional	All i, ii, iii, iv and v
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is computer threat?
((OPTION_A))  THIS IS MANDATORY OPTION	Phishing
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Soliciting
((OPTION_C))  This is optional	DoS attack
((OPTION_D))  This is optional	stalking
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a term used in cryptography that refers to a message before encryption or after decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PLAIN TEXT
((OPTION_C)) This is optional	Original text
((OPTION_D)) This is optional	Plain script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ is encrypted text
((OPTION_A)) THIS IS MANDATORY OPTION	cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cipher script
((OPTION_C)) This is optional	secret text
((OPTION_D)) This is optional	secret script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An _____ along with a key is used in the encryption
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption algorithm
((OPTION_C)) This is optional	encryption algorithm
((OPTION_D)) This is optional	plain text algorithm
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that sensitive information are accessed only by an authorized person and kept away from those not authorized to possess them.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Cryptography
((OPTION_D)) This is optional	Integrity
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information are in a format that is true and correct to its original purposes.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	integrity
((OPTION_D)) This is optional	cryptography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information and resources are available to those who need them.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Availability</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Confidentiality</b>
((OPTION_C)) This is optional	<b>Cryptography</b>
((OPTION_D)) This is optional	<b>Integrity</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of identifying an individual, usually based on a username and password.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither authentication nor authorization</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of giving individuals access to system objects based on their identity.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither congestion control nor quality of service</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	when someone gains access to a server, website, or other sensitive data using someone else's account details called as
((OPTION_A)) THIS IS MANDATORY OPTION	Authorized access
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Access control
((OPTION_C)) This is optional	Unauthorized access
((OPTION_D)) This is optional	access
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Person who tries and exploits a computer system for a reason which can be money, a social cause, fun etc.called as
((OPTION_A)) THIS IS MANDATORY OPTION	Thief
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	hacker
((OPTION_C)) This is optional	attacker
((OPTION_D)) This is optional	criminal
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is an action or event that might compromise the security.
((OPTION_A))  THIS IS MANDATORY OPTION	Threat
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C))  This is optional	Protect
((OPTION_D))  This is optional	attack
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a weakness, a design problem or implementation error in a system that can lead to an unexpected and undesirable event regarding security system
((OPTION_A)) THIS IS MANDATORY OPTION	threat
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C)) This is optional	Attack
((OPTION_D)) This is optional	Protection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a software that operates on different OS which is used to prevent from malicious software.
((OPTION_A)) THIS IS MANDATORY OPTION	Anti virus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	virus
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	risk
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a technique that a hacker uses to stole data by a person for different purposes by psychological manipulation combined with social scenes.
((OPTION_A)) THIS IS MANDATORY OPTION	Social Engineering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IT engineering
((OPTION_C)) This is optional	Psycology
((OPTION_D)) This is optional	Social engineering
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is a software or hardware which is used to filter network traffic based on rules.
((OPTION_A)) THIS IS MANDATORY OPTION	antivirus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firewall
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	keylogger
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not Basic Functions of Antivirus Engines
((OPTION_A)) THIS IS MANDATORY OPTION	Scanning
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity Checking
((OPTION_C)) This is optional	Interception
((OPTION_D)) This is optional	Evesdropping
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is name of antivirus
((OPTION_A))  THIS IS MANDATORY OPTION	AVG
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	PAN
((OPTION_C))  This is optional	SACK
((OPTION_D))  This is optional	FIREP
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hacking tools that can be found very easily by everyone just by googling and they are endless.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Potential Losses due to Security Attacks doesn't involve _____
((OPTION_A)) THIS IS MANDATORY OPTION	Losing your data
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Bad usage of your computer resources
((OPTION_C)) This is optional	Reputation gain
((OPTION_D)) This is optional	Identity theft
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Reputation loss is part of it and not gain

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not malware category?
((OPTION_A))  THIS IS MANDATORY OPTION	Worms
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Viruses
((OPTION_C))  This is optional	Trojans
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	All are malware categories

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ encrypts all your data when your computer gets infected and the second is to roll back the data at a specific time you want.
((OPTION_A)) THIS IS MANDATORY OPTION	ransomware
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firmware
((OPTION_C)) This is optional	middleware
((OPTION_D)) This is optional	Cyber ware
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	this network is created between two secure network devices like two firewalls.
((OPTION_A)) THIS IS MANDATORY OPTION	LAN
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAN
((OPTION_C)) This is optional	VPN
((OPTION_D)) This is optional	WAN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Virtual private network

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Name of the attack when integrity is compromised is called as _____
((OPTION_A))  THIS IS MANDATORY OPTION	Fabrication
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	interception
((OPTION_C))  This is optional	Interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack made on confidentiality is __
((OPTION_A))  THIS IS MANDATORY OPTION	interception
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C))  This is optional	interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	an attack on availability such as a denial of service attack (or DOS)
((OPTION_A))  THIS IS MANDATORY OPTION	Interruption
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Interception
((OPTION_C))  This is optional	fabrication
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An unauthorized party inserts counterfeit objects into the system and basically attacks the authenticity of the system.
((OPTION_A)) THIS IS MANDATORY OPTION	modification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	interruption
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack in which a network service is made degraded or unavailable for legitimate use
((OPTION_A)) THIS IS MANDATORY OPTION	Interruption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is assurance that someone cannot deny something.
((OPTION_A))  THIS IS MANDATORY OPTION	availability
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	confidentiality
((OPTION_C))  This is optional	Access control
((OPTION_D))  This is optional	Non-repudiation
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the purpose of a Denial of Service attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Exploit a weakness in the TCP/IP stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	To execute a Trojan on a system
((OPTION_C))  This is optional	To overload a system so it is no longer operational
((OPTION_D))  This is optional	To shutdown services by turning them off
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	DoS attacks force systems to stop responding by overloading the processing of the system

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What are some of the most common vulnerabilities that exist in a network or system?
((OPTION_A)) THIS IS MANDATORY OPTION	Changing manufacturer, or recommended, settings of a newly installed application.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additional unused features on commercial software packages
((OPTION_C)) This is optional	Utilizing open source application code
((OPTION_D)) This is optional	Balancing security concerns with functionality and ease of use of a system.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Linux is an open source code and considered to have greater security than the commercial Windows environment

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Sniffing is used to perform _____ fingerprinting
((OPTION_A))  THIS IS MANDATORY OPTION	Passive stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active stack
((OPTION_C))  This is optional	Passive banner grabbing
((OPTION_D))  This is optional	Scanned
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Passive stack fingerprinting uses sniffing technologies instead of scanning

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a principle of data security?
((OPTION_A)) THIS IS MANDATORY OPTION	Data Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following attacks is a passive attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Masquerade
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Modification of message
((OPTION_C))  This is optional	Denial of service
((OPTION_D))  This is optional	Traffic analysis
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	In a passive attack, the attacker does not modify any part of the data. His attempt is only to obtain the information and not to modify it. From the mentioned options, this happens only in Traffic analysis in which the attacker monitors the pattern of transmission. The rest other options are examples of active attacks.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options correctly defines the Brute force attack?
((OPTION_A)) THIS IS MANDATORY OPTION	Brutally forcing the user to share the useful information like pins and passwords.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Trying every possible key to decrypt the message.
((OPTION_C)) This is optional	One entity pretends to be some other entity
((OPTION_D)) This is optional	The message or information is modified before sending it to the receiver.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"A key is a string of bits used by a cryptographic algorithm to transform plain text into ciphertext." Which of the following is capable of becoming a key in a cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	Integer value
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Square matrix
((OPTION_C)) This is optional	An array of characters
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	measures taken by any enterprise or organisation to secure its computer network and data using both hardware and software systems is called as
((OPTION_A)) THIS IS MANDATORY OPTION	Network security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Information security
((OPTION_C)) This is optional	Cyber security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	phishing and pre-texting is part of _____
((OPTION_A)) THIS IS MANDATORY OPTION	<b>NETWORK SECURITY</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>CYBER SECURITY</b>
((OPTION_C)) This is optional	Internet security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures to protect the transit data only.
((OPTION_A)) THIS IS MANDATORY OPTION	NETWORK SECURITY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet security
((OPTION_C)) This is optional	Information security
((OPTION_D)) This is optional	Cyber security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is danger for <b>Integrity</b> as well as <b>availability</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is danger for <b>Confidentiality</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ attack attention is on detection.
((OPTION_A))  THIS IS MANDATORY OPTION	Passive attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active Attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ attack attention is on prevention.
((OPTION_A))  THIS IS MANDATORY OPTION	Active attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Due to ___ attack system is always damaged.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	Both active and passive
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	due to _____ attack, there is no any harm to the system.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack is tough to restrict from entering systems or networks.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Attack is easy to prohibited in comparison to _____ attack.
((OPTION_A))  THIS IS MANDATORY OPTION	Active,passive
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive,active
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not active attack
((OPTION_A)) THIS IS MANDATORY OPTION	Denial of service (DoS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	replay
((OPTION_C)) This is optional	Trojans
((OPTION_D)) This is optional	traffic analysis
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In __ <b>attack</b> , an attacker tries to modify the content of the messages.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ <b>attack</b> , an attacker observes the messages, copy them and may use them for malicious purposes
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is state of being free from potential threats or dangers
((OPTION_A)) THIS IS MANDATORY OPTION	privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	freedom
((OPTION_C)) This is optional	security
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ refers to the state of being free from unwanted attention.
((OPTION_A)) THIS IS MANDATORY OPTION	Freedom
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Privacy
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ can be achieved without _____ but _____ cannot be achieved without _____.
((OPTION_A)) THIS IS MANDATORY OPTION	Security,privacy,privacy security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy,security,security,privacy
((OPTION_C)) This is optional	Security,privacy,privacy,privacy
((OPTION_D)) This is optional	Security,security,privacy,security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program refers to a set of protocols and regulations set in place to protect all the confidential information assets and resources that an organization collects and owns.
((OPTION_A)) THIS IS MANDATORY OPTION	Privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program focuses on protecting only personal information such as log in credentials, passwords, etc.
((OPTION_A)) THIS IS MANDATORY OPTION	Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Collection of protocol designed by IETF
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Operation in Tunnel mode
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects information in
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec in which mode does not protect IP header
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which mode is used when we need host to host protection
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects the whole IP packets
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec defines two protocol
((OPTION_A)) THIS IS MANDATORY OPTION	AH, SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP, ASP
((OPTION_C)) This is optional	AH, ESP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Authentication at the IP header
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES AUTHENTICATION OR ENCRYPTION OR BOTH FOR PACKET AT IP LEVEL
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ESP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSEC USES A SET OF SA CALLED
((OPTION_A)) THIS IS MANDATORY OPTION	SAD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SAB
((OPTION_C)) This is optional	SADB
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol to provide security for inbound and outbound
((OPTION_A)) THIS IS MANDATORY OPTION	SA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CA
((OPTION_C)) This is optional	KDC
((OPTION_D)) This is optional	IKE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE creates SA for
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP
((OPTION_C)) This is optional	IPSec
((OPTION_D)) This is optional	VP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE based on other how many protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Two
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Three
((OPTION_C)) This is optional	Four
((OPTION_D)) This is optional	five
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE uses
((OPTION_A)) THIS IS MANDATORY OPTION	OAKLEY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SKEME
((OPTION_C)) This is optional	ISKAMP
((OPTION_D)) This is optional	ALL ABOVE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network is used in an organization
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Semi private
((OPTION_D)) This is optional	Semi publik
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Private network that uses an internet model
((OPTION_A)) THIS IS MANDATORY OPTION	intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a network that allows authorized access from outside
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Internet authorities have reserved address for
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is provides privacy for LAN
((OPTION_A)) THIS IS MANDATORY OPTION	VPP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	VNP
((OPTION_C)) This is optional	VNN
((OPTION_D)) This is optional	VPN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES END TO END SECURITY FOR APPLICATION
((OPTION_A)) THIS IS MANDATORY OPTION	DATA LINK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NETWORK
((OPTION_C)) This is optional	TRANSPORT
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is actually an IETF version on
((OPTION_A)) THIS IS MANDATORY OPTION	TLS, TSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL. TLS
((OPTION_C)) This is optional	TLS, SSL
((OPTION_D)) This is optional	SSL,SLT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security at the transport layer
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To provide security and compression
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Can receive application data from any application layer protocol
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSL provides
((OPTION_A)) THIS IS MANDATORY OPTION	Integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Compression
((OPTION_D)) This is optional	All above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSI session
((OPTION_A)) THIS IS MANDATORY OPTION	List of protocol
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher suit
((OPTION_C)) This is optional	List of keys
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cryptographic algorithem and secrets are sent with the message IN
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	TLS
((OPTION_D)) This is optional	PGP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security protocol for email security is
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Was invented by Phil Zimmerman
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security, integration, authentication in email
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Method to transfer secure message
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cryptoanalysis
((OPTION_C)) This is optional	both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the original message before transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the message after transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms plaintext to ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms cipher text to plain text
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A combination of encryption and decryption algorithm is called
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher operates on
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The same key used by both the sender and receiver
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The key is called as secret key
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A pair of keys used in
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the sender uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the receiver uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A cipher replaces one character with another
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic and polyalphabetic cipher are
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The simplest monoalphabetic cipher is
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Ceasar cipher that has key of 3
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cipher reorders the plain text to create the ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless substitution To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless transposition To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher made of a combination of different simple cipher
((OPTION_A)) THIS IS MANDATORY OPTION	Round
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Circle
((OPTION_C)) This is optional	Square
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is an method
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES has an Round
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES functions has components
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES uses a key generaterto generater to generate sixteen ---round key
((OPTION_A)) THIS IS MANDATORY OPTION	32 bit
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	48 bit
((OPTION_C)) This is optional	54 bit
((OPTION_D)) This is optional	42 bit
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES was designed to increase the size of DES key
((OPTION_A)) THIS IS MANDATORY OPTION	Double
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripal
((OPTION_C)) This is optional	Quadrupal
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Algorithm uses a 128 bit block of data
((OPTION_A)) THIS IS MANDATORY OPTION	AEE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AED
((OPTION_C)) This is optional	AER
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES has how many different combinations
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are ciphers
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Field
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptographic algorithm is
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	AC
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	it provides a one time session key for two parties
((OPTION_A)) THIS IS MANDATORY OPTION	Diffie hellman
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is an abbreviation of
((OPTION_A)) THIS IS MANDATORY OPTION	Terminal network
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Telephone network
((OPTION_C)) This is optional	Telecommunication network
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is a client server application program for
((OPTION_A)) THIS IS MANDATORY OPTION	Specific purpose
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	General purpose
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Users logs in to local time sharing system is called
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To access remote machine need a login
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	NVT uses two set of character
((OPTION_A)) THIS IS MANDATORY OPTION	Sending, receiving
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Request, reply
((OPTION_C)) This is optional	Data, control
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The server uses -----port
((OPTION_A)) THIS IS MANDATORY OPTION	Wellknown
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Emperor
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To distinguish data from characters
((OPTION_A)) THIS IS MANDATORY OPTION	ICA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IAC
((OPTION_C)) This is optional	AIC
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	the echoing is done by the client in the mode
((OPTION_A)) THIS IS MANDATORY OPTION	Default
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Character
((OPTION_C)) This is optional	Line
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP uses a service of
((OPTION_A)) THIS IS MANDATORY OPTION	UDP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IP
((OPTION_C)) This is optional	TCP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP control and data connection are
((OPTION_A))  THIS IS MANDATORY OPTION	21, 22
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	20,21
((OPTION_C))  This is optional	21,20
((OPTION_D))  This is optional	none
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP is the service type used by IP protocol because
((OPTION_A)) THIS IS MANDATORY OPTION	Maximise throughput
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Minimize delay
((OPTION_C)) This is optional	Minimize error
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For control connection FTP use a character set of
((OPTION_A)) THIS IS MANDATORY OPTION	Regular ASCII
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EBCDIC
((OPTION_C)) This is optional	NVT ASCII
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP files are types of an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structures
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP there are three types of -----,stream, blocked and compression
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structurs
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP and image defines an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File type
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structure
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the server to client
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Retrieve a list
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the client to server
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Store a file
((OPTION_C)) This is optional	Retrieve a lise
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a part of a local hard drive, a special file with permission restriction
((OPTION_A)) THIS IS MANDATORY OPTION	A message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A response
((OPTION_C)) This is optional	An agent
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and the receiver on the same system we need
((OPTION_A)) THIS IS MANDATORY OPTION	One UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	One UA and one MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are on the different system, we need
((OPTION_A)) THIS IS MANDATORY OPTION	One MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	Two UA and one pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender is connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pairs of MTA
((OPTION_C)) This is optional	Two UA and a pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two UA, two pair of MTA, a pair of MAA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pair of MTA
((OPTION_C)) This is optional	Two UA, two pair of MTA, two pair of MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It provides a service to the user to make the process of sending and receiving message
((OPTION_A)) THIS IS MANDATORY OPTION	MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAA
((OPTION_C)) This is optional	UA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following services is not provided by UA
((OPTION_A)) THIS IS MANDATORY OPTION	Composing message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Reading message
((OPTION_C)) This is optional	Reply message
((OPTION_D)) This is optional	ALL are
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There are two types of user agents
((OPTION_A)) THIS IS MANDATORY OPTION	Command driven, data driven
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Command driven, GUI based
((OPTION_C)) This is optional	Command based and data based
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It contains the sender address, receiver address and other information
((OPTION_A)) THIS IS MANDATORY OPTION	Message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Envelop
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The message contains
((OPTION_A)) THIS IS MANDATORY OPTION	Header, envelop
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Header, body
((OPTION_C)) This is optional	Envelop, body
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the internet, the email address contains two parts
((OPTION_A)) THIS IS MANDATORY OPTION	Local part, domain name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Global part, domain name
((OPTION_C)) This is optional	Label, domain name
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is a supplementary protocol that allow Non ASCII data to be sent through email
((OPTION_A)) THIS IS MANDATORY OPTION	JPEG
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MPEG
((OPTION_C)) This is optional	MIME
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The actual email transfer is done through
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol that defines a MTA client and server in the internet is called
((OPTION_A)) THIS IS MANDATORY OPTION	SMTP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SNMP
((OPTION_C)) This is optional	TELNET
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of transferring a mail message occurs in-----phase
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SMTP is --- protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in a email transfer need a ---protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in an email transfer uses an ----protocol
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Currently two message asses protocol are available
((OPTION_A)) THIS IS MANDATORY OPTION	POP3, IMAP2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POP4,IMAP1
((OPTION_C)) This is optional	POP3, IMAP4
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem _____ keys are used for encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different
((OPTION_C)) This is optional	Encryption Keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	In conventional cryptosystem, same keys are used for encryption and decryption where as in public key cryptosystem different keys are used.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In public key cryptosystem which is kept as public?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption keys
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption keys
((OPTION_C)) This is optional	Encryption & Decryption keys
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	In public key cryptosystem, the encryption keys are kept as public where as decryption keys are kept as secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptosystem uses same key for both encryption and decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which should be kept as a secret in public key cryptosystem?
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption key
((OPTION_C)) This is optional	Encryption & Decryption key
((OPTION_D)) This is optional	None of the mentioned
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	In public key cryptosystem, Encryption is done using public key . decryption key needs to be kept as a secret.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Euler's totient function is determined by
((OPTION_A)) THIS IS MANDATORY OPTION	$pq$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(p-1)(q-1)$
((OPTION_C)) This is optional	$(p+1)(q+1)$
((OPTION_D)) This is optional	$p/q$
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The Euler's totient function is determined by $(p-1)(q-1)$ , where p and q are kept hidden.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the following is the property of 'p' and 'q'?
((OPTION_A))  THIS IS MANDATORY OPTION	p and q should be divisible by $\Phi(n)$
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	p and q should be co-prime
((OPTION_C))  This is optional	p and q should be prime
((OPTION_D))  This is optional	p/q should give no remainder
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	'p' and 'q' should have large random values which are both prime numbers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, $\Phi(n) = \text{_____}$ in terms of p and q.
((OPTION_A)) THIS IS MANDATORY OPTION	(p)/(q)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	(p)(q)
((OPTION_C)) This is optional	(p-1)(q-1)
((OPTION_D)) This is optional	(p+1)(q+1)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$\Phi(n) = (p-1)(q-1).$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, we select a value 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$ .
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	$\gcd(e, \Phi(n))=1$ ; and $1 < e < \Phi(n)$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $e=17$ . Apply RSA algorithm where message=5 and find the cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	C=80
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	C=92
((OPTION_C)) This is optional	C=56
((OPTION_D)) This is optional	C=23
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 209.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 19$ and choose $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	54
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	43
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	24
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$n = pq = 11 \times 19 = 209$ . $C=M^e \text{ mod } n ; C=5^{17} \text{ mod } 209 ; C = 80 \text{ mod } 209$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	$n = 35; e = 5; C = 10$ . What is the plaintext (use RSA) ?
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	7
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Use RSA system to decrypt and get PT = 5.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where PT message=88 and thus find the CT.
((OPTION_A)) THIS IS MANDATORY OPTION	23
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64
((OPTION_C)) This is optional	11
((OPTION_D)) This is optional	54
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=88^7 \text{ mod } 187 ; C = 11 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For $p = 11$ and $q = 17$ and choose $e=7$ . Apply RSA algorithm where Cipher message=11 and thus find the plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	88
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	122
((OPTION_C)) This is optional	143
((OPTION_D)) This is optional	111
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	$n = pq = 11 \times 19 = 187$ . $C=M^e \text{ mod } n ; C=11^{23} \text{ mod } 187 ; C = 88 \text{ mod } 187$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an RSA system the public key of a given user is $e = 31$ , $n = 3599$ . What is the private key of this user?
((OPTION_A))  THIS IS MANDATORY OPTION	3031
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	2412
((OPTION_C))  This is optional	2432
((OPTION_D))  This is optional	1023
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	By trial and error, we determine that $p = 59$ and $q = 61$ . Hence $f(n) = 58 \times 60 = 3480$ . Then, using the extended Euclidean algorithm, we find that the multiplicative inverse of 31 modulo $f(n)$ is 3031

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compute private key (d, p, q) given public key (e=23, n=233 ´ 241=56,153).
((OPTION_A)) THIS IS MANDATORY OPTION	35212
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	12543
((OPTION_C)) This is optional	19367
((OPTION_D)) This is optional	32432
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Since n=233 ´ 241=56,153, p=233 and q=241 $f(n) = (p - 1)(q - 1) = 55,680$ Using Extended Euclidean algorithm, we obtain $d = 23^{-1} \text{ mod } 55680 = 19,367.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a RSA cryptosystem a particular A uses two prime numbers $p = 13$ and $q = 17$ to generate her public and private keys. If the public key of A is 35. Then the private key of A is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	13
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	17
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In an RSA cryptosystem, for public key: $\text{GCD}(\phi(n), e) = 1$ And, for private key:

	$(e * d) \bmod \phi(n) = 1$ Where, $\phi(n) = (p - 1)*(q - 1) = (13 - 1)(17 - 1) = 12 * 16 = 192$ Such that $1 < e, d < \phi(n)$ Therefore, the private key is: $(35 * d) \bmod \phi(n) = 1$ $d = 11$
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the RSA public key cryptosystem, which one of the following numbers will always be largest?
((OPTION_A)) THIS IS MANDATORY OPTION	E
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	N
((OPTION_C)) This is optional	P
((OPTION_D)) This is optional	Q
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	The number n is generated as the product of the two large prime numbers p and q. Therefore, n must always be greater than both p and q. Furthermore, it is an algorithm constraint that e must be chosen such that e is smaller than n. Therefore, in RSA cryptography n is always the largest of the four variables shown in the options to this question.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If Richard wants to send an encrypted message to Sue using a public key cryptosystem, which key does he use to encrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Richard must encrypt the message using Sue's public key so that Sue can decrypt it using her private key. If he encrypted the message with his own public key, the recipient would need to know Richard's private key to decrypt the message. If he encrypted it with his own private key, any user could decrypt the message using Richard's freely available public key. Richard could not encrypt the message using Sue's private key because he does not have access to it. If he did, any user could decrypt it using Sue's freely available public key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Acme Widgets currently uses a 1,024-bit RSA encryption standard companywide. The company plans to convert from RSA to an elliptic curve cryptosystem. If it wishes to maintain the same cryptographic strength, what ECC key length should it use?
((OPTION_A)) THIS IS MANDATORY OPTION	160 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	512 bits
((OPTION_C)) This is optional	1,024 bits
((OPTION_D)) This is optional	2,048 bits

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The elliptic curve cryptosystem requires significantly shorter keys to achieve encryption that would be the same strength as encryption achieved with the RSA encryption algorithm. A 1,024-bit RSA key is cryptographically equivalent to a 160-bit elliptic curve cryptosystem key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Richard received an encrypted message sent to him from Sue. Which key should he use to decrypt the message?
((OPTION_A)) THIS IS MANDATORY OPTION	Richard's public key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Richard's private key
((OPTION_C)) This is optional	Sue's public key
((OPTION_D)) This is optional	Sue's private key

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sue would have encrypted the message using Richard's public key. Therefore, Richard needs to use the complementary key in the key pair, his private key, to decrypt the message.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One commonly used public-key cryptography method is the _____ algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the objective of Diffie-Hellman key exchange?
((OPTION_A)) THIS IS MANDATORY OPTION	To protect encrypted data from man-in-the-middle attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	To perform mutual authentication on both sides
((OPTION_C)) This is optional	To prove to another party that one holds a secret key without revealing it
((OPTION_D)) This is optional	To establish a shared secret key on both sides

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The security of RSA encryption relies on which assumption?
((OPTION_A)) THIS IS MANDATORY OPTION	It is computationally infeasible to compute a GCD of two large numbers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is computationally infeasible to factor a large number.
((OPTION_C)) This is optional	It is computationally infeasible to test whether a large number is prime.
((OPTION_D)) This is optional	It is computationally infeasible to compute a square modulo n.

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is asymmetric cryptography?
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	Both ECC and RSA
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below requires less hardware capacity because of less key size
((OPTION_A)) THIS IS MANDATORY OPTION	ECC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Diffie Hellman is _____
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption algorithm
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	D-H is key exchange algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Timing attack on RSA can be avoided by __
((OPTION_A)) THIS IS MANDATORY OPTION	Padding extra bits in message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Adding delays
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below algorithm is used in cryptocurrency?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AES
((OPTION_C)) This is optional	ECC
((OPTION_D)) This is optional	None of these

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When a hash function is used to provide message authentication, the hash function value is called to as:
((OPTION_A)) THIS IS MANDATORY OPTION	Message Field
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Message Digest
((OPTION_C)) This is optional	Message Score
((OPTION_D)) This is optional	Message Leap

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	We know that the hash function providing message authentication is referred to as message digest in cryptography.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following are used to create a message digest  a. RSA b. SHA-1 c. DES d. MD5
((OPTION_A)) THIS IS MANDATORY OPTION	A&B
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	B&C
((OPTION_C)) This is optional	A&C

((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	They are Message digest algorithm

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the output of a cryptographic hash function?
((OPTION_A)) THIS IS MANDATORY OPTION	A variable set of bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A fixed set of bits, derived from one-way mathematical operations
((OPTION_C)) This is optional	An output which may be easily discovered by an adversary

((OPTION_D)) This is optional	Outputs of such functions are of no importance
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest algorithms are primarily used to provide _____
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	inegrity

((OPTION_D)) This is optional	authorization
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a message digest algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IDEA
((OPTION_C)) This is optional	MD5

((OPTION_D)) This is optional	RSA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the data must arrive at the receiver exactly as sent.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message _____ means that the receiver is ensured that the message is coming from the intended sender, not an imposter.
((OPTION_A)) THIS IS MANDATORY OPTION	confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	integrity
((OPTION_C)) This is optional	authentication

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ function creates a message digest out of a message
((OPTION_A)) THIS IS MANDATORY OPTION	encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	hash

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a trusted third party that assigns a symmetric key to two parties.
((OPTION_A)) THIS IS MANDATORY OPTION	Public directory
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Certificate authority
((OPTION_C)) This is optional	Both

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature provides _____.
((OPTION_A)) THIS IS MANDATORY OPTION	authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nonrepudiation
((OPTION_C)) This is optional	both (a) and (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature needs a(n) _____ system
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)

((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A(n) _____ is a federal or state organization that binds a public key to an entity and issues a certificate.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	means that a sender must not be able to deny sending a message that he sent.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication

((OPTION_D)) This is optional	Nonrepudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is a popular session key creator protocol that requires an authentication server and a ticket-granting server.
((OPTION_A)) THIS IS MANDATORY OPTION	KDC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Kerberos
((OPTION_C)) This is optional	CA

((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The MD5 is a message digest algorithm developed by
((OPTION_A)) THIS IS MANDATORY OPTION	Ron Rivest.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	WhiteField Diffie.
((OPTION_C)) This is optional	Martin Hellman.

((OPTION_D)) This is optional	Diffie-Hellman.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 is quite fast and produces _____ message digests
((OPTION_A)) THIS IS MANDATORY OPTION	512 bits
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	1024 bits
((OPTION_C)) This is optional	128 bits

((OPTION_D)) This is optional	64 bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The first step of MD5 is
((OPTION_A)) THIS IS MANDATORY OPTION	add padding bits to original messsge
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	adding append length bits
((OPTION_C)) This is optional	divide the input into 512 bit blocks

((OPTION_D)) This is optional	compression
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the process block divides the 512 bits into _____ sub blocks.
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	24
((OPTION_C)) This is optional	32

((OPTION_D)) This is optional	84
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which financial institutions have a relationship with merchants for processing payment card authorizations and payments?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Acquirer
((OPTION_C)) This is optional	Merchant

((OPTION_D)) This is optional	Dealer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following contains the order information such as which items are being purchased?
((OPTION_A)) THIS IS MANDATORY OPTION	PI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	OI
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Payment information can be encrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	customer's private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	merchant public key
((OPTION_C)) This is optional	one-time session key.

((OPTION_D)) This is optional	customer's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature envelope is decrypted by using _____.
((OPTION_A)) THIS IS MANDATORY OPTION	merchant private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	payment's private key
((OPTION_C)) This is optional	payment public key

((OPTION_D)) This is optional	merchant's public key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ will ensure the merchant and their payment information
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Dual signature

((OPTION_D)) This is optional	Certificate authority
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SET provides an authentication with the help of _____
((OPTION_A)) THIS IS MANDATORY OPTION	dual signature
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	digital certificate
((OPTION_C)) This is optional	payment's public key

((OPTION_D)) This is optional	payment's private key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are very crucial for success of RSA algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	Integers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Prime numbers
((OPTION_C)) This is optional	Negative number

((OPTION_D)) This is optional	Fraction
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ acts as financial institutions who provides a payment card to a card holder
((OPTION_A)) THIS IS MANDATORY OPTION	payment gateway
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	card holder
((OPTION_C)) This is optional	acquirer

((OPTION_D)) This is optional	issuer
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	ISSUER means Bank

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who will be responsible for processing the payment from the customer's account to the merchant account?
((OPTION_A)) THIS IS MANDATORY OPTION	Acquirer
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Merchant
((OPTION_C)) This is optional	Issuer

((OPTION_D)) This is optional	Payment gateway
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cardholder combines the PIMD and OIMD and hashes them together to form
((OPTION_A)) THIS IS MANDATORY OPTION	OPMD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POMD
((OPTION_C)) This is optional	MD

((OPTION_D)) This is optional	DS
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which process will ensure that the issues of the credit card is an approved transactions?
((OPTION_A)) THIS IS MANDATORY OPTION	Payment capture
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Payment authorization
((OPTION_C)) This is optional	Purchase request

((OPTION_D)) This is optional	Purchase reply
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is used for hiding the payment information from the merchant.
((OPTION_A)) THIS IS MANDATORY OPTION	SET
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	SHTTP

((OPTION_D)) This is optional	TSP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A __word buffer is used to compute the message digest in MD5
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5

((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	4 WORD A,B,C,D

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In MD5, the message is <b>padded</b> so that its length is divisible by ____
((OPTION_A)) THIS IS MANDATORY OPTION	32
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	128
((OPTION_C)) This is optional	512

((OPTION_D)) This is optional	1024
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 should meet requirements:
((OPTION_A)) THIS IS MANDATORY OPTION	It is impossible to generate two inputs that cannot produce the same hash function
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	It is impossible to generate a message having the same hash value
((OPTION_C)) This is optional	Both of the above

((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	MD5 takes an input of ___ size and produces an output if a 128-bit hash value
((OPTION_A)) THIS IS MANDATORY OPTION	Any
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Multiple of 512
((OPTION_C)) This is optional	Multiple of 128

((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following best describes sniffing?
((OPTION_A)) THIS IS MANDATORY OPTION	Gathering packets to locate IP addresses, in order to initiate a session hijacking attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Analyzing packets in order to locate the sequence number to start a session hijack
((OPTION_C)) This is optional	Monitoring TCP sessions in order to initiate a session-hijacking attack

((OPTION_D)) This is optional	Locating a host susceptible to a session-hijack attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Sniffing is usually used to locate the sequence number, which is necessary for a session hijack.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The secret key between members needs to be created as a _____ key when two members contact Kerberos system
((OPTION_A)) THIS IS MANDATORY OPTION	Public
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session
((OPTION_C))	complimentary

This is optional	
((OPTION_D))	None of these
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main components of Kerberos are:
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	database

This is optional	
((OPTION_D))	All of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ performs the initial authentication and ticket for Ticket Granting Service
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Ticket granting server
((OPTION_C))	Database

This is optional	
((OPTION_D))	Kerberos
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Authentication Server verifies access right of users in __
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication server
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TG server
((OPTION_C))	Database

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ issues the ticket for the Server
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	DB

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Kerberos is primarily used for _____
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C))	confidentiality

This is optional	
((OPTION_D))	authorization
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The KDC encrypts the TGT with a password that only the _____ knows.
((OPTION_A)) THIS IS MANDATORY OPTION	AS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TGS
((OPTION_C))	Server

This is optional	
((OPTION_D))	None of the above
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Because no one else needs to be able to see the contents.  It's for the server to keep track of the client

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The essence of Kerberos' system is _____.
((OPTION_A)) THIS IS MANDATORY OPTION	One way authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity

((OPTION_C)) This is optional	Mutual authentication
((OPTION_D)) This is optional	Public authentication
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not an element/field of the X.509 certificates?
((OPTION_A)) THIS IS MANDATORY OPTION	Issuer Name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Serial Modifier

((OPTION_C)) This is optional	Issuer unique Identifier
((OPTION_D)) This is optional	Signature
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 certificate recommends which cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	DES

((OPTION_C)) This is optional	AES
((OPTION_D)) This is optional	Rabin
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The standard used in digital certificates that defines its structure, fields, and Values is
((OPTION_A)) THIS IS MANDATORY OPTION	Kerberos
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	End to end encryption

((OPTION_C)) This is optional	X.509
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	X.509 Certificates includes
((OPTION_A)) THIS IS MANDATORY OPTION	Version
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	signature algorithm identifier

((OPTION_C)) This is optional	period of validity
((OPTION_D)) This is optional	extension fields
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	All of the above
((CORRECT_CH OICE)) Either A or B or C or D or E	E
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ defines a framework for the provision of authentication services by the X.500 directory
((OPTION_A)) THIS IS MANDATORY OPTION	X.509
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.508

((OPTION_C)) This is optional	X.505
((OPTION_D)) This is optional	X.609
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A digital signature is a mathematical technique used to validate the _____ and _____ of a message, software or digital document
((OPTION_A)) THIS IS MANDATORY OPTION	Authenticity, integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity, confidentiality

((OPTION_C)) This is optional	Integrity,non-repudiation
((OPTION_D)) This is optional	Authenticity,confidentiality
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature involves ____ and ____
((OPTION_A)) THIS IS MANDATORY OPTION	Signature verification ,validation
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Signature creation,verification

((OPTION_C)) This is optional	Signature creation,deletion
((OPTION_D)) This is optional	Signature validation,modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Message digest is computed by applying hash function on the message and then message digest is encrypted using _____ key of sender to form the digital signature.
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Session
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature , Receiver decrypts the digital signature using the _____ key of sender
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public

((OPTION_C)) This is optional	Secret
((OPTION_D)) This is optional	Session
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In digital signature, The message digest computed by ___ and the message digest (got by decryption on digital signature) need to be ___ for ensuring integrity
((OPTION_A)) THIS IS MANDATORY OPTION	Receiver,same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Receiver,different

((OPTION_C)) This is optional	Sender,same
((OPTION_D)) This is optional	Sender,different
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____is like a fingerprint or an attachment to a digital document that ensures its authenticity and integrity.
((OPTION_A)) THIS IS MANDATORY OPTION	Digital certificate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Digital signature

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Digital signature follows _____
((OPTION_A)) THIS IS MANDATORY OPTION	Digital Signature Standard (DSS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	X.509 standard format

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In diffie-hellman algorithm, if Alice and Bob wish to communicate with each other, they first agree between them a large prime number n, and ____ g
((OPTION_A)) THIS IS MANDATORY OPTION	Generator
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Small prime number

((OPTION_C)) This is optional	Natural number
((OPTION_D)) This is optional	Factorial
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm if $X_a$ is private key of user then public key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$g^{X_a} \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$n^{X_a} \text{ mod } n$

((OPTION_C)) This is optional	$g^n \bmod p$
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, ____ keys of each other should be known
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Session

((OPTION_C)) This is optional	Public
((OPTION_D)) This is optional	No
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm,shared secret key is calculated by ____
((OPTION_A)) THIS IS MANDATORY OPTION	$(g^a \text{ mod } n)^b \text{ mod } n$
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	$(g^b \text{ mod } n)^a \text{ mod } n$

((OPTION_C)) This is optional	Both of the above
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In D-H algorithm, the resulting shared secret will be the ___ every time
((OPTION_A)) THIS IS MANDATORY OPTION	Same
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Different

((OPTION_C)) This is optional	Maybe same
((OPTION_D)) This is optional	Can't say
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ the first widely used method of safely developing and exchanging keys over an insecure channel
((OPTION_A)) THIS IS MANDATORY OPTION	RSA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSS

((OPTION_C)) This is optional	Diffie Hellman
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suppose that two parties A and B wish to set up a common secret key (D-H key) between themselves using the Diffie Hellman key exchange technique. They agree on 7 as the modulus and 3 as the primitive root. Party A chooses 2 and party B chooses 5 as their respective secrets. Their D-H key is
((OPTION_A)) THIS IS MANDATORY OPTION	3
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4

((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a Diffie-Hellman Key Exchange, Alice and Bob have chosen prime value $q = 17$ and primitive root $= 5$ . If Alice's secret key is 4 and Bob's secret key is 6, what is the shared secret key they exchanged?
((OPTION_A)) THIS IS MANDATORY OPTION	16
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	17

((OPTION_C)) This is optional	18
((OPTION_D)) This is optional	19
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each round of MD5 consist of ____ operations
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15

((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	18
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Each buffer of MD5 algorithm is ____ bit long
((OPTION_A))  THIS IS MANDATORY OPTION	32
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	64

((OPTION_C)) This is optional	128
((OPTION_D)) This is optional	512
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	RSA is _____ cryptography
((OPTION_A)) THIS IS MANDATORY OPTION	Asymmetric
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Value generated by hash function is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Message digest
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hash

((OPTION_C)) This is optional	MAC
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not service of digital signature
((OPTION_A))  THIS IS MANDATORY OPTION	Authentication to message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data integrity

((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ digitally signs this entire information and includes digital signature in the certificate
((OPTION_A)) THIS IS MANDATORY OPTION	CA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	KDC

((OPTION_C)) This is optional	PKI
((OPTION_D)) This is optional	DB
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA ,e is used as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key

((OPTION_C)) This is optional	Euler's totient
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In RSA, d is referred as ____
((OPTION_A)) THIS IS MANDATORY OPTION	Private key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public key
((OPTION_C)) This is optional	Totient function
((OPTION_D)) This is optional	Session key
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	



**International Institute of Information Technology**

**Department of Computer Engineering**

**Information & Cyber Security (ICS)**

**Multiple Choice Question Bank (Units:-1, 2, 3)**

**Class: B.E. (Comp)**

**Date: 29/04/2020**

**Select the most appropriate answer from the given choices:**

**Unit-1:- Security Basics**

- 1) When you use the word \_\_\_\_\_ it means you are protecting your data from getting disclosed.
  - a) Confidentiality
  - b) Integrity
  - c) Authentication
  - d) Availability
  
- 2) Which of the following is a passive attack ?
  - a) Modify
  - b) Masquerade
  - c) Denial of Service
  - d) Traffic analysis
  
- 3) \_\_\_\_\_ service ensures that a message was received by the receiver from the actual sender and not from the attacker.
  - a) Confidentiality
  - b) Access Control
  - c) Non-repudiation
  - d) Authentication
  
- 4) Which of the following is an active attack ?
  - a) Release of message contents
  - b) Traffic analysis
  - c) Modify
  - d) Denial of Service
  - e) a and b
  - f) c and d
  
- 5) Which of the following attacks is not a threat to the integrity of data ?
  - a) Reply
  - b) Snooping
  - c) Masquerade
  - d) Modification of message contents

- 6) \_\_\_\_\_ means the protection of data from modification by unknown users.
- a) Confidentiality
  - b) Integrity
  - c) Authentication
  - d) Non-repudiation
- 7) When integrity is lacking in a security system, \_\_\_\_\_ occurs.
- a) Database hacking
  - b) Data deletion
  - c) Data tampering
  - d) Data leakage
- 8) \_\_\_\_\_ of information means, only authorised users are capable of accessing the information.
- a) Confidentiality
  - b) Integrity
  - c) Non-repudiation
  - d) Availability
- 9) Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
- a) They help understanding hacking better
  - b) They are key elements to a security breach
  - c) They help understand security and its components better
  - d) They help to understand the cyber-crime better
- 10) Which of these is not a proper method of maintaining confidentiality?
- a) Biometric verification
  - b) ID and password based verification
  - c) 2-factor authentication
  - d) switching off the phone
- 11) One common way to maintain data availability is \_\_\_\_\_
- a) Data clustering
  - b) Data backup
  - c) Data recovery
  - d) Data Altering
- 12) The full form of Malware is \_\_\_\_\_
- a) Malfunctioned Software
  - b) Multipurpose Software
  - c) Malicious Software
  - d) Malfunctioning of Security
- 13) \_\_\_\_\_ is a code injecting method used for attacking the database of a system / website.
- a) HTML injection
  - b) SQL Injection
  - c) Malicious code injection
  - d) XML Injection

14) When there is an excessive amount of data flow, which the system cannot handle, \_\_\_\_\_ attack takes place.

- a) Database crash attack
- b) DoS (Denial of Service) attack
- c) Data overflow Attack
- d) Buffer Overflow attack

15) Which of them is NOT a wireless attack?

- a) Eavesdropping
- b) MAC Spoofing
- c) Wireless Hijacking
- d) Phishing

16) An attempt to harm, damage or cause threat to a system or network is broadly termed as \_\_\_\_\_

- a) Cyber-crime
- b) Cyber Attack
- c) System hijacking
- d) Digital crime

17) \_\_\_\_\_ are the special type of programs used for recording and tracking user's keystroke.

- a) Keylogger
- b) Trojans
- c) Virus
- d) Worms

18) \_\_\_\_\_ is a violent act done using the Internet, which either threatens any technology user or leads to loss of life or otherwise harms anyone in order to accomplish political gain.

- a) Cyber-warfare
- b) Cyber campaign
- c) Cyber-terrorism
- d) Cyber attack

19) From the options below, which of them is not a vulnerability to information security?

- a) Flood
- b) Without deleting data, disposal of storage media
- c) Unchanged default password
- d) Latest patches and updates not done

20) Compromising confidential information comes under \_\_\_\_\_

- a) Bug
- b) Threat
- c) Vulnerability
- d) Attack

## **Unit-2:- Data Encryption Techniques and Standards**

- 1) Lack of access control policy is a \_\_\_\_\_
  - a) Bug
  - b) Threat
  - c) Vulnerability
  - d) Attack
  
- 2) The method of hiding secrets is called \_\_\_\_\_
  - a) Cryptanalysis
  - b) Watermarking
  - c) Steganography
  - d) Cryptography
  
- 3) \_\_\_\_\_ is the art of breaking the code
  - a) Cryptanalysis
  - b) Steganography
  - c) Cryptography
  - d) Cryptosystem
  
- 4) One-time pad is also called as \_\_\_\_\_.
  - a) Perfect hiding
  - b) Perfect secrecy
  - c) Perfect writing
  - d) Perfect encryption
  
- 5) An encryption scheme means \_\_\_\_\_.
  - a) A private key
  - b) A plaintext message
  - c) A method of encoding information
  - d) A ciphertext message
  
- 6) The field which deals with \_\_\_\_\_ is called cryptography.
  - a) Encryption schemes and secure systems
  - b) Firewalls, operating systems and routers
  - c) Keys
  - d) Complex systems
  
- 7) Possible threat to any information cannot be \_\_\_\_\_.
  - a) Reduced
  - b) Transferred
  - c) Protected
  - d) ignored
  
- 8) In symmetric cryptography, which of the following MUST be true ?
  - a) For encryption and decryption, same amount of time is required
  - b) For encryption and decryption, different algorithms are used
  - c) Cryptographic operations are one-way and not reversible

- d) For encryption and decryption, same key is used
- 9) Which type of ciphers ECB and CBC are ?
- a) Stream
  - b) Block
  - c) Field
  - d) None of the above
- 10) Which of the following encryption algorithm uses 56-bit round key ?
- a) RSA
  - b) AES
  - c) IDEA
  - d) DES
- 11) If the key size is 24 bytes in AES, what would be the number of rounds ?
- a) 10
  - b) 12
  - c) 15
  - d) 14
- 12) If the key size is 32 bytes in AES, what would be the number of rounds ?
- a) 10
  - b) 12
  - c) 16
  - d) 14
- 13) In the last round of AES, which of the following step is absent ?
- a) Shift row
  - b) Mix columns
  - c) Byte substitution
  - d) Add subkey
- 14) \_\_\_\_\_ is the entity for issuing digital certificates.
- a) Certificate Authority (CA)
  - b) Cert Authority (CA)
  - c) Cert Authorization (CA)
  - d) Certificate Authorization (CA)
- 15) SRTP is abbreviated as \_\_\_\_\_
- a) Secure Relay Transport Protocol
  - b) Secure Real-time Transferring Protocol
  - c) Secure Real-time Transport Protocol
  - d) Secure Real-time Transportation Protocol
- 16) \_\_\_\_\_ is an attack technique where numerous SYN packets are spoofed with a bogus source address which is then sent to an inundated server.
- a) SYN flooding attack
  - b) ACK flooding attack
  - c) SYN & ACK flooding attack

d) Packet flooding attack

17) DES stands for \_\_\_\_\_.

- a) Data Encryption Standard
- b) Data Encryption Subscription
- c) Data Encryption Solutions
- d) Data Encryption Slots

18) The heart of DES is \_\_\_\_\_.

- a) Rounds
- b) Cipher
- c) Encryption
- d) DES function

19) DES follows \_\_\_\_\_.

- a) Hash Algorithm
- b) Caesars Cipher
- c) Feistel Cipher Structure
- d) SP Networks

20) The DES Algorithm Cipher System consists of \_\_\_\_\_ rounds (iterations) each with a round key.

- a) 12
- b) 18
- c) 9
- d) 16

21) The DES algorithm has a key length of \_\_\_\_\_.

- a) 128 Bits
- b) 32 Bits
- c) 64 Bits
- d) 16 Bits

22) In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via \_\_\_\_\_

- a) Scaling of the existing bits
- b) Duplication of the existing bits
- c) Addition of zeros
- d) Addition of ones

23) Triple-DES has \_\_\_\_\_ keys.

- a) 1
- b) 2
- c) 5
- d) 4

24) An electronic document that establishes your credentials when you are performing transactions.

- a) Digital code
- b) OTP
- c) E-mail
- d) Digital certificate

25) AES uses a \_\_\_\_\_ bit block size and a key size of \_\_\_\_\_ bits.

- a) 128; 128 or 256
- b) 64; 128 or 192
- c) 256; 128, 192, or 256
- d) 128; 128, 192, or 256

26) Like DES, AES also uses Feistel Structure.

- a) True
- b) False

27) Which one of the following is not a cryptographic algorithm- JUPITER, Blowfish, RC6 and Rijndael ?

- a) JUPITER
- b) Blowfish
- c) RC6
- d) Rijndael

28) How many rounds does the AES-192 perform?

- a) 10
- b) 12
- c) 14
- d) 16

29) What is the expanded key size of AES-192?

- a) 44 words
- b) 60 words
- c) 52 words
- d) 36 words

30) The  $4 \times 4$  byte matrices in the AES algorithm are called \_\_\_\_\_.

- a) States
- b) Words
- c) Transitions
- d) Permutations

### **Unit-3: Public Key and Management**

- 1) In the RSA algorithm, we select 2 random large values ‘p’ and ‘q’. Which of the following is the property of ‘p’ and ‘q’?
  - a) p and q should be divisible by  $\Phi(n)$
  - b) p and q should be co-prime
  - c) p and q should be prime
  - d)  $p/q$  should give no remainder
- 2) RSA cryptography relies on the difficulty \_\_\_\_\_.

- a) Calculating the factors of large prime number
  - b) Calculating the prime factors of a large composite number
  - c) Calculating the composite factors of a large composite number
  - d) Calculating the inverse of a large number
- 3) RSA is not affected by \_\_\_\_\_.
- a) Brute force attack
  - b) Timing attack
  - c) Meet-in-the-middle attack
  - d) Mathematical attack
- 4) Which of the following statement is NOT true for Asymmetric Encryption Algorithm ?
- a) It is slower as compared to symmetric encryption algorithm
  - b) It is generally used for encrypting small message
  - c) It is well-known as secret key encryption
  - d) It is well-known as public key encryption
- 5) In RSA,  $\Phi(n) = \text{_____}$  in terms of p and q.
- a)  $(p) / (q)$
  - b)  $(p) * (q)$
  - c)  $(p-1) * (q-1)$
  - d)  $(p+1) * (q+1)$
- 6) For  $p = 11$  and  $q = 19$  and choose  $e=17$ . Apply RSA algorithm where message=5 and find the cipher text.
- a) C=80
  - b) C=92
  - c) C=56
  - d) C=23
- 7) For  $p = 11$  and  $q = 19$  and choose  $d=17$ . Apply RSA algorithm where Cipher message=80 and thus find the plain text.
- a) 54
  - b) 43
  - c) 5
  - d) 24
- 8) In cryptography, what is cipher?
- a) algorithm for performing encryption and decryption
  - b) encrypted message
  - c) both algorithm for performing encryption and decryption and encrypted message
  - d) decrypted message
- 9) In asymmetric key cryptography, the private key is kept by \_\_\_\_\_
- a) Sender
  - b) Receiver
  - c) sender and receiver
  - d) all the connected devices to the network

10) Which one of the following algorithm is not used in asymmetric-key cryptography?

- a) RSA algorithm
- b) Diffie-hellman algorithm
- c) Electronic code book algorithm
- d) DSA algorithm

11) What is data encryption standard (DES)?

- a) Block cipher
- b) Stream cipher
- c) Bit cipher
- d) Byte cipher

12) ElGamal encryption system is \_\_\_\_\_

- a) Symmetric key encryption algorithm
- b) Asymmetric key encryption algorithm
- c) Not an encryption algorithm
- d) Block cipher method

13) Diffie-Hellman algorithm is suffered by \_\_\_\_\_

- a) Brute force attack
- b) Man-in-the-middle attack
- c) Timing attack
- d) None of the above

14) In cryptography, the public keys can be distributed using \_\_\_\_\_.

- a) Public announcement
- b) Publicly available directory
- c) Public key authority
- d) All of the above

15) For Diffie-Hellman algorithm, which of the following statement is true ?

- a) If the values of n and g are small, it is possible for the attackers to find out the values of private keys of the users
- b) If the values of n and g are small, it is possible for the attackers to find out the value of shared secret key
- c) Man-in-the-middle attack is possible against Diffie-Hellman algorithm
- d) The shared secret key is transmitted in encrypted form among the users

16) Kerberos is considered secure because \_\_\_\_\_

- a) It uses AES for encryption
- b) It has no single point of failure
- c) It uses public key cryptography
- d) None of the above

17) In Kerberos, a client sends a ticket to a server. The server is convinced that the ticket is genuine because \_\_\_\_\_.

- a) It came from the client

- b) It can decode it
- c) It came from the KDC
- d) It is new

18) Kerberos does not address \_\_\_\_\_ issue.

- a) Availability
- b) Privacy
- c) Authentication
- d) Integrity

19) A message sent with \_\_\_\_\_ is authentic and digitally signed.

- a) Message digest/hash encrypted with the receiver's public key
- b) Message digest/hash encrypted with the receiver's private key
- c) Message digest/hash encrypted with the sender's public key
- d) Message digest/hash encrypted with the sender's private key

20) MD5 and SHA are \_\_\_\_\_.

- a) Asymmetric block ciphers
- b) Message signing algorithms
- c) Stream ciphers
- d) Symmetric block ciphers

21) What is the preferred way of encryption?

- a) Pre shared secret key
- b) Using Key Distribution Center (KDC)
- c) Public key-encryption
- d) Symmetric key

22) What is NOT an encryption standard?

- a) AES
- b) TES
- c) Triple DES
- d) DES

23) Which of the following is NOT a stream cipher?

- a) Two fish
- b) RC5
- c) RC4
- d) TBONE

24) MD5 produces \_\_\_\_\_ bits hash data.

- a) 128
- b) 150
- c) 160
- d) 112

25) SHA-1 produces \_\_\_\_\_ bit of hash.

- a) 128

- b) 160
- c) 150
- d) 112

26) What is a Hash Function?

- a) It creates a small flexible block of data
- b) It creates a small, fixed block of data
- c) It creates an encrypted block of data
- d) None of the mentioned

27) What is the role of Key Distribution Center?

- a) It is used to distribute keys to everyone in world
- b) It intended to reduce the risks inherent in exchanging keys
- c) All of the mentioned
- d) None of the mentioned

28) When a hash function is used to provide message authentication, the hash function value is referred to as \_\_\_\_\_.

- a) Message Field
- b) Message Digest
- c) Message Score
- d) Message Leap

29) Message authentication code is also known as \_\_\_\_\_.

- a) Key code
- b) Hash code
- c) Keyed hash function
- d) Message key hash function

30) A strong method of authentication is \_\_\_\_\_.

- a) Message digest algorithms
- b) Encryption techniques
- c) Digital signature
- d) None of the above

### **Solution Key: Unit-1**

1) a	2) d	3) a	4) f	5) b	6) b
7) c	8) d	9) c	10) d	11) b	12) c
13) b	14) d	15) d	16) b	17) a	18) c
19) a	20) b				

### **Solution Key: Unit-2**

1) c	2) d	3) a	4) b	5) c	6) a
7) d	8) d	9) b	10) b	11) b	12) d
13) b	14) a	15) c	16) a	17) a	18) d
19) c	20) d	21) c	22) a	23) b	24) d
25) d	26) b	27) a	28) b	29) c	30) a

### **Solution Key: Unit-3**

1) c	2) b	3) c	4) c	5) c	6) a
7) c	8) a	9) b	10) c	11) a	12) b
13) b	14) d	15) d	16) b	17) c	18) d
19) d	20) b	21) c	22) b	23) d	24) a
25) b	26) b	27) b	28) b	29) c	30) c



# International Institute of Information Technology

## Department of Computer Engineering

### Information & Cyber Security (ICS)

#### Multiple Choice Question Bank (Units:-4, 5, 6)

Class: B.E. (Comp)

Date: 30/04/2020

Select the most appropriate answer from the given choices:

#### Unit-4:- Security Requirements

- 1) There are \_\_\_\_\_ different versions of IP popularly used.
  - a) 2
  - b) 3
  - c) 4
  - d) 5
  
- 2) \_\_\_\_\_ is an attack where the attacker is able to guess together with the sequence number of an in progress communication session & the port number.
  - a) TCP Spoofing
  - b) TCP Blind Spoofing
  - c) IP Spoofing
  - d) IP Blind Spoofing
  
- 3) \_\_\_\_\_ is an attack technique where numerous SYN packets are spoofed with a bogus source address which is then sent to an inundated server.
  - a) SYN flooding attack
  - b) ACK flooding attack
  - c) SYN & ACK flooding attack
  - d) Packet flooding attack
  
- 4) Which of them is not an attack done in the network layer of the TCP/IP model?
  - a) MITM attack
  - b) DoS attack
  - c) Spoofing attack
  - d) Shoulder surfing
  
- 5) Which of them is not an appropriate method of router security?
  - a) Unused ports should be blocked
  - b) Unused interfaces and services should be disabled
  - c) Routing protocol needs to be programmed by security experts
  - d) Packet filtering needs to be enabled
  
- 6) Which two protocols are used in the Transport layer of the TCP/IP model?
  - a) UDP and HTTP

- b) TCP and UDP
  - c) HTTP and TCP
  - d) ICMP and HTTP
- 7) Which of the protocol is not used in the network layer of the TCP/IP model?
- a) ICMP
  - b) IP
  - c) IGMP
  - d) HTTP
- 8) In IPsec, integrity to the message is provided using \_\_\_\_\_.
- a) Encryption algorithm
  - b) Digital signature
  - c) Hashing algorithm
  - d) None of the above
- 9) Which of the following standards represent the overview of IPsec architecture ?
- a) RFC 2401
  - b) RFC 2402
  - c) RFC 2406
  - d) RFC 2408
- 10) The address size of IP\_V6 is \_\_\_\_\_.
- a) 32 bits
  - b) 64 bits
  - c) 128 bits
  - d) 256 bits
- 11) The address size of IP\_V4 is \_\_\_\_\_.
- a) 32 bits
  - b) 64 bits
  - c) 128 bits
  - d) 256 bits
- 12) In IP\_V6, total number of addresses available are \_\_\_\_\_.
- a)  $2^{32}$
  - b)  $2^{64}$
  - c)  $2^{128}$
  - d)  $2^{256}$
- 13) IPsec is designed to provide security at the \_\_\_\_\_.
- a) Transport layer
  - b) Network layer
  - c) Application layer
  - d) Session layer
- 14) In tunnel mode, IPsec protects the \_\_\_\_\_.
- a) Entire IP packet
  - b) IP header
  - c) IP payload

d) IP trailer

15) Which component is included in IP security?

- a) Authentication Header (AH)
- b) Encapsulating Security Payload (ESP)
- c) Internet Key Exchange (IKE)
- d) All of the above

16) Extensible authentication protocol is authentication framework frequently used in \_\_\_\_\_.

- a) Wired personal area network
- b) Wireless networks
- c) Wired local area network
- d) Wired metropolitan area network

17) Pretty good privacy (PGP) is used in \_\_\_\_\_.

- a) Browser security
- b) Email security
- c) FTP security
- d) Wi-Fi security

18) PGP encrypts data by using a block cipher called \_\_\_\_\_.

- a) International Data Encryption Algorithm (IDEA)
- b) Private data encryption algorithm
- c) Internet data encryption algorithm
- d) Local data encryption algorithm

19) Wireshark is a \_\_\_\_\_ tool.

- a) Network protocol analysis
- b) Network connection security
- c) Connection analysis
- d) Defending malicious packet-filtering

20) Aircrack-ng is used for \_\_\_\_\_

- a) Firewall bypassing
- b) Wi-Fi attacks
- c) Packet filtering
- d) System password cracking

21) \_\_\_\_\_ is a popular tool used for network analysis in multiprotocol diverse network.

- a) Snort
- b) SuperScan
- c) Burp Suit
- d) EtterPeak

22) Which one of the following is NOT a higher –layer SSL protocol?

- a) Alert Protocol
- b) Handshake Protocol
- c) Alarm Protocol
- d) Change Cipher Spec Protocol

23) Which one of the following is not a session state parameter?

- a) Master Secret
- b) Cipher Spec
- c) Peer Certificate
- d) Server Write Key

24) In the SSL Protocol, each upper layer message if fragmented into a maximum of \_\_\_\_\_ bytes.

- a)  $2^{16}$
- b)  $2^{32}$
- c)  $2^{14}$
- d)  $2^{12}$

25) The full form of SSL is \_\_\_\_\_.

- a) Serial Session Layer
- b) Secure Socket Layer
- c) Session Secure Layer
- d) Series Socket Layer

26) Which protocol is used to convey SSL related alerts to the peer entity?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

27) Which protocol consists of only 1 bit?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

28) Which protocol is used for the purpose of copying the pending state into the current state?

- a) Alert Protocol
- b) Handshake Protocol
- c) Upper-Layer Protocol
- d) Change Cipher Spec Protocol

29) Which of the following protocol is NOT a part of a set of SSL protocol ?

- a) Record protocol
- b) Change Cipher Spec protocol
- c) ESP protocol
- d) Alert protocol

30) The SSL protocol does not provide \_\_\_\_\_.

- a) Data confidentiality
- b) Authentication
- c) Data privacy
- d) Data integrity

31) The first phase of Handshake protocol does not establish \_\_\_\_\_ component

- a) Method of key exchange
- b) Digital signature algorithm

- c) Encryption algorithm  
d) Hashing algorithm
- 32) \_\_\_\_\_ is a famous technological medium for the spread of malware, facing problems of spam, & phishing attacks.  
 a) Cloud  
b) Pen drive  
c) Website  
d) Email
- 33) Which of them is not a major way of stealing email information?  
 a) Stealing cookies  
b) Reverse Engineering  
c) Password Phishing  
d) Social Engineering
- 34) Which of them is NOT a proper method for email security?  
 a) Use Strong password  
b) Use email Encryption  
c) Spam filters and malware scanners  
d) Click on unknown links to explore
- 35) The stored cookie which contains all your personal data about that website can be stolen away by \_\_\_\_\_ using \_\_\_\_\_ or trojans.  
 a) attackers, malware  
b) hackers, antivirus  
c) penetration testers, malware  
d) penetration testers, virus

### **Solution Key: Unit-4**

1)	a	2)	b	3)	a	4)	d	5)	c	6)	b
7)	d	8)	c	9)	a	10)	c	11)	a	12)	c
13)	b	14)	a	15)	d	16)	b	17)	b	18)	a
19)	a	20)	b	21)	d	22)	c	23)	d	24)	c
25)	b	26)	b	27)	d	28)	d	29)	c	30)	a
31)	b	32)	d	33)	b	34)	d	35)	a		

### **Unit-5:- Firewall and Intrusion**

- 1) An advantage of anomaly detection system is \_\_\_\_\_.  
 a) Rules are simple and easy to define  
b) The engine can scale as the rule set grows  
c) Protocols can be analysed easily  
d) Its false positive rate is lower
- 2) A false positive rate can be defined as \_\_\_\_\_.

- a) An alarm that indicates an attempt of an attack on a system, which is actually a legitimate network traffic or behaviour
  - b) An alarm that indicates an attempt of an attack on a system, which is not running on a network
  - c) The lack of an alarm for an attack
  - d) Both a and b
- 3) Which of the following is NOT a type of an IDS ?
- a) Anomaly-based detection
  - b) Signature-based detection
  - c) Zone-based detection
  - d) Misuse-based detection
- 4) Which of the following is a weakness of the host-based IDS ?
- a) Less accuracy
  - b) System specific activity
  - c) Requirement of more hardware
  - d) Very slow at detection
- 5) Which of the following is a weakness of the network-based IDS ?
- a) Increased cost of ownership
  - b) Malicious intent detection
  - c) Additional hardware is required
  - d) Poor real time detection and response
- 6) If the data stored in the \_\_\_\_\_ is not encrypted, then after cookie stealing, attackers can see information such as username and password stored by the cookie.
- a) Memory
  - b) Quarantine
  - c) Cookies
  - d) Hard drive
- 7) Which of the following is a non-technical type of intrusion or attack technique?
- a) Reverse Engineering
  - b) Malware Analysis
  - c) Social Engineering
  - d) Malware Writing
- 8) \_\_\_\_\_ is the technique used for tricking users to disclose their username and passwords through fake pages.
- a) Social Engineering
  - b) Phishing
  - c) Cookie Stealing
  - d) Banner Grabbing
- 9) Using email hacking illicit hackers can send & spread \_\_\_\_\_ virus \_\_\_\_\_ and spam emails.
- a) Trojans, redirected malicious URLs
  - b) Antivirus, patches
  - c) Cracked software, redirected malicious URLs

- d) Malware, security patches
- 10) Unsolicited Bulk E-mails (UBI) are called \_\_\_\_\_  
a) SMS  
b) MMS  
c) Spam emails  
d) Malicious emails
- 11) Fraudulent email messages are some fake email messages that seem legitimate which asks for your confidential bank details such as \_\_\_\_\_ details \_\_\_\_\_ and passwords.  
a) Credit card, antivirus name  
b) Credit card, login ID  
c) Cell phone, antivirus name  
d) Car model, account ID
- 12) Even with two-factor authentication, users may still be vulnerable to \_\_\_\_\_ attacks.  
a) Radiant  
b) Cross attack  
c) Scripting  
d) Man-in-the-middle
- 13) In Denial-of-service attacks, typically against the targeted websites \_\_\_\_\_ is used.  
a) Zombie  
b) Trojan  
c) Virus  
d) Worm
- 14) A \_\_\_\_\_ attaches itself to executable files. When the infected program is executed, it replicates itself by finding other executable files to infect.  
a) Macro virus  
b) Stealth virus  
c) Polymorphic virus  
d) Parasitic virus
- 15) A type of virus explicitly designed to hide itself from detection by antivirus software is \_\_\_\_\_.  
a) Macro virus  
b) Stealth virus  
c) Polymorphic virus  
d) Parasitic virus
- 16) \_\_\_\_\_ is a malicious code that is installed secretly on another Internet attached computer and then attacks are launched using that computer.  
a) Zombie  
b) Virus  
c) Trap doors  
d) Worm
- 17) Bots have the ability to \_\_\_\_\_.  
a) Log keystrokes

- b) Capture and analyse the packets
- c) Collect passwords
- d) All of the above

18) Which of the following is NOT true about digital immune system ?

- a) It makes the system highly scalable
- b) It helps in reducing false positives in the system
- c) It provides fast analysis of the threats
- d) The detection rate for new or unknown threats is low

19) Which of the following is NOT true about e-mail bombing ?

- a) It is sent to consume system and network resources
- b) It results in the denial-of-service
- c) Multiple accounts at the target site may be abused
  - i. A and b above
  - ii. B and c above
  - iii. A and c above
  - iv. A, B and C above

20) Which of the following statements is TRUE about a worm ?

- a) It is a program that never copies itself into a computer's memory until no more space is left.
- b) It is a program that replicates itself
- c) It attaches itself to e-mails
- d) It corrupts boot sector instructions

21) Firewall protects the network against \_\_\_\_\_.

- a) Virus
- b) Fire
- c) Unauthenticated interactive log-ins from the outside world
- d) Connecting to and from the outside world

22) Which of the following is NOT true about the Firewall ?

- a) It blocks unauthorised traffic
- b) Traffic must only be allowed to pass from inside to outside the firewall
- c) Firewall should be immune to penetration
- d) It hides internal computers or networks which are vulnerable

23) Network layer firewall has two sub-categories as \_\_\_\_\_

- a) State full firewall and stateless firewall
- b) Bit oriented firewall and byte oriented firewall
- c) Frame firewall and packet firewall
- d) Network layer firewall and session layer firewall

24) A firewall is installed at the point where the secure internal network and untrusted external network meet which is also known as \_\_\_\_\_

- a) Choke point
- b) Meeting point
- c) Firewall point
- d) Secure point

25) A proxy firewall filters at \_\_\_\_\_

- a) Physical layer
- b) Data link layer
- c) Network layer
- d) Application layer

26) Network layer firewall works as a \_\_\_\_\_

- a) Frame filter
- b) Packet filter
- c) Content filter
- d) Virus filter

27) What is one advantage of setting up a DMZ with two firewalls?

- a) You can control where traffic goes in three networks
- b) You can do stateful packet filtering
- c) You can do load balancing
- d) Improved network performance

28) A stateful firewall maintains a \_\_\_\_\_ which is a list of active connections.

- a) Routing table
- b) Bridging table
- c) State table
- d) Connection table

29) A firewall needs to be \_\_\_\_\_ so that it can grow proportionally with the network that it protects.

- a) Robust
- b) Expansive
- c) Fast
- d) Scalable

30) What are the major components of the intrusion detection system?

- a) Analysis Engine
- b) Event provider
- c) Alert Database
- d) All of the mentioned

31) What are the different ways to classify an IDS?

- a) anomaly detection
- b) signature based misuse
- c) stack based
- d) all of the mentioned

32) What are the different ways to classify an IDS?

- a) Zone based
- b) Host & Network based
- c) Network & Zone based
- d) Level based

- 33) What are the characteristics of anomaly based IDS?
- a) It models the normal usage of network as a noise characterization
  - b) It doesn't detect novel attacks
  - c) Anything distinct from the noise is not assumed to be intrusion activity
  - d) It detects based on signature

- 34) What are the characteristics of signature based IDS?
- a) Most are based on simple pattern matching algorithms
  - b) It is programmed to interpret a certain series of packets
  - c) It models the normal usage of network as a noise characterization
  - d) Anything distinct from the noise is assumed to be intrusion activity

- 35) What are the drawbacks of signature based IDS?
- a) They are unable to detect novel attacks
  - b) They suffer from false alarms
  - c) They have to be programmed again for every new pattern to be detected
  - d) All of the mentioned

## **Unit-6:- Confidentiality and Cyber Forensic**

- 1) The main objective of computer forensics is \_\_\_\_\_.
  - a) Preservation of the data
  - b) Identification of the data
  - c) Extraction of the information
  - d) All of the above
- 2) Which of the following statements are TRUE about computer forensics ?
  - a) It is concerned with confidentiality
  - b) It is concerned with integrity
  - c) It is concerned with acquisition, preservation and analysis of the digital evidences
    - i. Only a above
    - ii. Only a and b above
    - iii. Only c above
    - iv. All a, b and c above
- 3) During investigation of the crime, the experts of computer forensics \_\_\_\_\_.
  - a) Perform the task of identification
  - b) Perform the task of preservation
  - c) Perform the task of extraction
  - d) Perform the task of interpretation
    - i. Only a and b above
    - ii. Only a and c above
    - iii. Only a and d above
    - iv. All of the above
- 4) Which of the following is not an example of privacy-browser?
  - a) Tor
  - b) Brave
  - c) Epic
  - d) Opera

- 5) \_\_\_\_\_ allow its users to attach to the internet via a remote or virtual server which preserves privacy.
- a) Cookie removers
  - b) VPNs
  - c) Tor browser
  - d) Private Search Engines
- 6) \_\_\_\_\_ deals with the protection of an individual's information which is implemented while using the Internet on any computer or personal device.
- a) Digital agony
  - b) Digital privacy
  - c) Digital secrecy
  - d) Digital protection
- 7) Which of the following browser is used for Privacy purpose?
- a) Chrome
  - b) Firefox
  - c) Opera
  - d) Tor
- 8) The \_\_\_\_\_ transferred between your device & the server is securely encrypted if you are using VPNs.
- a) Data
  - b) Virus
  - c) Music files
  - d) Document files
- 9) Which of the following is not a type of Cybercrime?
- a) Data theft
  - b) Forgery
  - c) Damage to data and systems
  - d) Installing antivirus for protection
- 10) . Which of the following is not a type of peer-to-peer Cybercrime?
- a) Phishing
  - b) Injecting Trojans to a target victim
  - c) MiTM
  - d) Credit card details leak in deep web
- 11) Which of the following is not an example of a computer as weapon Cybercrime?
- a) Credit card fraudulent
  - b) Spying someone using keylogger
  - c) IPR Violation
  - d) Pornography
- 12) Which of the following is not done by cyber criminals?
- a) Unauthorized account access
  - b) Mass attack using Trojans as botnets
  - c) Email spoofing and spamming

- d) Report vulnerability in any system
- 13) What is the name of the IT law that India is having in the Indian legislature?
- a) India's Technology (IT) Act, 2000
  - b) India's Digital Information Technology (DIT) Act, 2000
  - c) India's Information Technology (IT) Act, 2000
  - d) The Technology Act, 2008
- 14) In which year India's IT Act came into existence?
- a) 2000
  - b) 2001
  - c) 2002
  - d) 2003
- 15) What is the full form of ITA-2000?
- a) Information Tech Act -2000
  - b) Indian Technology Act -2000
  - c) International Technology Act -2000
  - d) Information Technology Act -2000
- 16) Under which section of IT Act, stealing any digital asset or information is written a Cybercrime.
- a) 65
  - b) 65-D
  - c) 67
  - d) 70
- 17) What is the punishment in India for stealing computer documents, assets or any software's source code from any organization, individual, or from any other means?
- a) 6 months of imprisonment and a fine of Rs. 50,000
  - b) 1 year of imprisonment and a fine of Rs. 100,000
  - c) 2 years of imprisonment and a fine of Rs. 250,000
  - d) 3 years of imprisonment and a fine of Rs. 500,000
- 18) What is the updated version of the IT Act, 2000?
- a) IT Act, 2007
  - b) Advanced IT Act, 2007
  - c) IT Act, 2008
  - d) Advanced IT Act, 2008
- 19) In which year the Indian IT Act, 2000 got updated?
- a) 2006
  - b) 2008
  - c) 2010
  - d) 2012
- 20) What type of cyber-crime, its laws and punishments does section 66 of the Indian IT Act holds?
- a) Cracking or illegally hack into any system
  - b) Putting antivirus into the victim
  - c) Stealing data
  - d) Stealing hardware components

## Solution Key: Unit-4

2)	a	2)	b	3)	a	4)	d	5)	c	6)	b
7)	d	8)	c	9)	a	10)	c	11)	a	12)	c
13)	b	14)	a	15)	d	16)	b	17)	b	18)	a
19)	a	20)	b	21)	d	22)	c	23)	d	24)	c
25)	b	26)	b	27)	d	28)	d	29)	c	30)	a
31)	b	32)	d	33)	b	34)	d	35)	a		

## **Solution Key:** Unit-5

1)	b	2)	d	3)	c	4)	d	5)	c	6)	c
7)	c	8)	b	9)	a	10)	c	11)	b	12)	d
13)	a	14)	d	15)	c	16)	a	17)	d	18)	d
19)	d	20)	b	21)	c	22)	b	23)	a	24)	a
25)	d	26)	b	27)	c	28)	a	29)	b	30)	d
31)	d	32)	b	33)	a	34)	a	35)	d		

## **Solution Key:** Unit-6

1)	d	2)	iii	3)	iv	4)	d	5)	b	6)	b
7)	d	8)	a	9)	d	10)	d	11)	b	12)	d
13)	c	14)	a	15)	d	16)	a	17)	d	18)	c
19)	b	20)	a								

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Collection of protocol designed by IETF
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Operation in Tunnel mode
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects information in
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec in which mode does not protect IP header
((OPTION_A)) THIS IS MANDATORY OPTION	transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which mode is used when we need host to host protection
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec protects the whole IP packets
((OPTION_A)) THIS IS MANDATORY OPTION	Transport
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tunnel
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSec defines two protocol
((OPTION_A)) THIS IS MANDATORY OPTION	AH, SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP, ASP
((OPTION_C)) This is optional	AH, ESP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Authentication at the IP header
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES AUTHENTICATION OR ENCRYPTION OR BOTH FOR PACKET AT IP LEVEL
((OPTION_A)) THIS IS MANDATORY OPTION	AH
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ESP
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	SSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IPSEC USES A SET OF SA CALLED
((OPTION_A)) THIS IS MANDATORY OPTION	SAD
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SAB
((OPTION_C)) This is optional	SADB
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol to provide security for inbound and outbound
((OPTION_A)) THIS IS MANDATORY OPTION	SA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CA
((OPTION_C)) This is optional	KDC
((OPTION_D)) This is optional	IKE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE creates SA for
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PGP
((OPTION_C)) This is optional	IPSec
((OPTION_D)) This is optional	VP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE based on other how many protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Two
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Three
((OPTION_C)) This is optional	Four
((OPTION_D)) This is optional	five
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IKE uses
((OPTION_A)) THIS IS MANDATORY OPTION	OAKLEY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SKEME
((OPTION_C)) This is optional	ISKAMP
((OPTION_D)) This is optional	ALL ABOVE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network is used in an organization
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Semi private
((OPTION_D)) This is optional	Semi publik
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Private network that uses an internet model
((OPTION_A)) THIS IS MANDATORY OPTION	intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a network that allows authorized access from outside
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Internet authorities have reserved address for
((OPTION_A)) THIS IS MANDATORY OPTION	Intranet
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet
((OPTION_C)) This is optional	Extranet
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is provides privacy for LAN
((OPTION_A)) THIS IS MANDATORY OPTION	VPP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	VNP
((OPTION_C)) This is optional	VNN
((OPTION_D)) This is optional	VPN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	IT PROVIDES END TO END SECURITY FOR APPLICATION
((OPTION_A)) THIS IS MANDATORY OPTION	DATA LINK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NETWORK
((OPTION_C)) This is optional	TRANSPORT
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is actually an IETF version on
((OPTION_A)) THIS IS MANDATORY OPTION	TLS, TSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL. TLS
((OPTION_C)) This is optional	TLS, SSL
((OPTION_D)) This is optional	SSL,SLT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security at the transport layer
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To provide security and compression
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Can receive application data from any application layer protocol
((OPTION_A)) THIS IS MANDATORY OPTION	SSL
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	TLS
((OPTION_C)) This is optional	EITHER A OR B
((OPTION_D)) This is optional	BOTH
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSL provides
((OPTION_A)) THIS IS MANDATORY OPTION	Integrity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Compression
((OPTION_D)) This is optional	All above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SSI session
((OPTION_A)) THIS IS MANDATORY OPTION	List of protocol
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher suit
((OPTION_C)) This is optional	List of keys
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cryptographic algorithem and secrets are sent with the message IN
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	TLS
((OPTION_D)) This is optional	PGP
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security protocol for email security is
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSL
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Was invented by Phil Zimmerman
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Provides security, integration, authentication in email
((OPTION_A)) THIS IS MANDATORY OPTION	IPSec
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SSI
((OPTION_C)) This is optional	PGP
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Method to transfer secure message
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cryptoanalysis
((OPTION_C)) This is optional	both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the original message before transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is the message after transmission
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Plain text
((OPTION_C)) This is optional	Secret text
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms plaintext to ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm transforms cipher text to plain text
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A combination of encryption and decryption algorithm is called
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher operates on
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	secret
((OPTION_C)) This is optional	Key
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The same key used by both the sender and receiver
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The key is called as secret key
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A pair of keys used in
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the sender uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An asymmetric key cipher the receiver uses the key
((OPTION_A)) THIS IS MANDATORY OPTION	Private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Public
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A cipher replaces one character with another
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic and polyalphabetic cipher are
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The simplest monoalphabetic cipher is
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Ceasar cipher that has key of 3
((OPTION_A)) THIS IS MANDATORY OPTION	Transposition
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additive
((OPTION_C)) This is optional	Shift
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The cipher reorders the plain text to create the ciphertext
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless substitution To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a keyless transposition To define the relationship between input and output stream
((OPTION_A)) THIS IS MANDATORY OPTION	S box
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	P box
((OPTION_C)) This is optional	T box
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Cipher made of a combination of different simple cipher
((OPTION_A)) THIS IS MANDATORY OPTION	Round
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Circle
((OPTION_C)) This is optional	Square
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is an method
((OPTION_A)) THIS IS MANDATORY OPTION	Symmetric key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Asymmetric key
((OPTION_C)) This is optional	Either A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES has an Round
((OPTION_A)) THIS IS MANDATORY OPTION	14
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	15
((OPTION_C)) This is optional	16
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES functions has components
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES uses a key generaterto generater to generate sixteen ---round key
((OPTION_A)) THIS IS MANDATORY OPTION	32 bit
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	48 bit
((OPTION_C)) This is optional	54 bit
((OPTION_D)) This is optional	42 bit
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES was designed to increase the size of DES key
((OPTION_A)) THIS IS MANDATORY OPTION	Double
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripal
((OPTION_C)) This is optional	Quadrupal
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Algorithm uses a 128 bit block of data
((OPTION_A)) THIS IS MANDATORY OPTION	AEE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AED
((OPTION_C)) This is optional	AER
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES has how many different combinations
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	3
((OPTION_C)) This is optional	4
((OPTION_D)) This is optional	5
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are ciphers
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Field
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Public key cryptographic algorithm is
((OPTION_A)) THIS IS MANDATORY OPTION	RSS
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RAS
((OPTION_C)) This is optional	RSA
((OPTION_D)) This is optional	RAA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	AC
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	it provides a one time session key for two parties
((OPTION_A)) THIS IS MANDATORY OPTION	Diffie hellman
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	DES
((OPTION_D)) This is optional	AES
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is an abbreviation of
((OPTION_A)) THIS IS MANDATORY OPTION	Terminal network
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Telephone network
((OPTION_C)) This is optional	Telecommunication network
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	TELNET is a client server application program for
((OPTION_A)) THIS IS MANDATORY OPTION	Specific purpose
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	General purpose
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Users logs in to local time sharing system is called
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To access remote machine need a login
((OPTION_A)) THIS IS MANDATORY OPTION	Local
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Remote
((OPTION_C)) This is optional	Temporary
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	NVT uses two set of character
((OPTION_A)) THIS IS MANDATORY OPTION	Sending, receiving
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Request, reply
((OPTION_C)) This is optional	Data, control
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For data NVT uses ASCII with the highest order bit set
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0
((OPTION_C)) This is optional	A or B
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The server uses -----port
((OPTION_A)) THIS IS MANDATORY OPTION	Wellknown
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Emperor
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	To distinguish data from characters
((OPTION_A)) THIS IS MANDATORY OPTION	ICA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IAC
((OPTION_C)) This is optional	AIC
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	the echoing is done by the client in the mode
((OPTION_A)) THIS IS MANDATORY OPTION	Default
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Character
((OPTION_C)) This is optional	Line
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP uses a service of
((OPTION_A)) THIS IS MANDATORY OPTION	UDP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IP
((OPTION_C)) This is optional	TCP
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP control and data connection are
((OPTION_A))  THIS IS MANDATORY OPTION	21, 22
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	20,21
((OPTION_C))  This is optional	21,20
((OPTION_D))  This is optional	none
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP is the service type used by IP protocol because
((OPTION_A)) THIS IS MANDATORY OPTION	Maximise throughput
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Minimize delay
((OPTION_C)) This is optional	Minimize error
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For control connection FTP use a character set of
((OPTION_A)) THIS IS MANDATORY OPTION	Regular ASCII
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EBCDIC
((OPTION_C)) This is optional	NVT ASCII
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During FTP session the control connection is opened
((OPTION_A)) THIS IS MANDATORY OPTION	Exactly once
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Exactly twice
((OPTION_C)) This is optional	Many times
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	FTP files are types of an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structures
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP there are three types of -----,stream, blocked and compression
((OPTION_A)) THIS IS MANDATORY OPTION	File types
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structurs
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP and image defines an attribute called
((OPTION_A)) THIS IS MANDATORY OPTION	File type
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data structure
((OPTION_C)) This is optional	Transmission mode
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the server to client
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Retrieve a list
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In FTP when we -----, it is copied from the client to server
((OPTION_A)) THIS IS MANDATORY OPTION	Retrieve a file
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Store a file
((OPTION_C)) This is optional	Retrieve a lise
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Is a part of a local hard drive, a special file with permission restriction
((OPTION_A)) THIS IS MANDATORY OPTION	A message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A response
((OPTION_C)) This is optional	An agent
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and the receiver on the same system we need
((OPTION_A)) THIS IS MANDATORY OPTION	One UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	One UA and one MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are on the different system, we need
((OPTION_A)) THIS IS MANDATORY OPTION	One MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA
((OPTION_C)) This is optional	Two UA and one pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender is connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pairs of MTA
((OPTION_C)) This is optional	Two UA and a pair of MTA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When the sender and receiver are connected to the mail server via a LAN or WAN, we need
((OPTION_A)) THIS IS MANDATORY OPTION	Two UA, two pair of MTA, a pair of MAA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Two UA and two pair of MTA
((OPTION_C)) This is optional	Two UA, two pair of MTA, two pair of MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It provides a service to the user to make the process of sending and receiving message
((OPTION_A)) THIS IS MANDATORY OPTION	MTA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAA
((OPTION_C)) This is optional	UA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following services is not provided by UA
((OPTION_A))  THIS IS MANDATORY OPTION	Composing message
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Reading message
((OPTION_C))  This is optional	Reply message
((OPTION_D))  This is optional	ALL are
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There are two types of user agents
((OPTION_A)) THIS IS MANDATORY OPTION	Command driven, data driven
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Command driven, GUI based
((OPTION_C)) This is optional	Command based and data based
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	It contains the sender address, receiver address and other information
((OPTION_A)) THIS IS MANDATORY OPTION	Message
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Envelop
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The message contains
((OPTION_A)) THIS IS MANDATORY OPTION	Header, envelop
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Header, body
((OPTION_C)) This is optional	Envelop, body
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the internet, the email address contains two parts
((OPTION_A)) THIS IS MANDATORY OPTION	Local part, domain name
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Global part, domain name
((OPTION_C)) This is optional	Label, domain name
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is a supplementary protocol that allow Non ASCII data to be sent through email
((OPTION_A)) THIS IS MANDATORY OPTION	JPEG
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MPEG
((OPTION_C)) This is optional	MIME
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The actual email transfer is done through
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Protocol that defines a MTA client and server in the internet is called
((OPTION_A)) THIS IS MANDATORY OPTION	SMTP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SNMP
((OPTION_C)) This is optional	TELNET
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of transferring a mail message occurs in-----phase
((OPTION_A)) THIS IS MANDATORY OPTION	2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	4
((OPTION_C)) This is optional	5
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	SMTP is --- protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in a email transfer need a ---protocol
((OPTION_A)) THIS IS MANDATORY OPTION	Pull
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Push
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	none
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The third stage in an email transfer uses an ----protocol
((OPTION_A)) THIS IS MANDATORY OPTION	UA
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MTA
((OPTION_C)) This is optional	MAA
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Currently two message asses protocol are available
((OPTION_A)) THIS IS MANDATORY OPTION	POP3, IMAP2
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	POP4,IMAP1
((OPTION_C)) This is optional	POP3, IMAP4
((OPTION_D)) This is optional	NONE
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following Algorithms does not belong to symmetric encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	3DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	RSA
((OPTION_C)) This is optional	RC5
((OPTION_D)) This is optional	IDEA
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Assymmetric Encryption: Why can a message encrypted with the Public Key only be decrypted with the receiver's appropriate Private Key?
((OPTION_A)) THIS IS MANDATORY OPTION	Not true, the message can also be decrypted with the Public Key.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	A so called "one way function with back door" is applied for the encryption
((OPTION_C)) This is optional	The Public Key contains a special function which is used to encrypt the message and which can only be reversed by the appropriate Private Key.
((OPTION_D)) This is optional	The encrypted message contains the function for decryption which identifies the Private Key.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	An one-way function is a function which a computer can calculate quickly, but whose reversal would last months or years. An one-way function with back door can be reversed with the help of a couple of additional information (the back door), but scarcely

	without this information. The information for the back door is contained in the private Key.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the largest disadvantage of the symmetric Encryption?
((OPTION_A)) THIS IS MANDATORY OPTION	More complex and therefore more time-consuming calculations.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Problem of the secure transmission of the Secret Key
((OPTION_C)) This is optional	Less secure encryption function.
((OPTION_D)) This is optional	Isn't used any more
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION))	As there is only one key in the symmetrical encryption, this must

)) This is also optional	be known by both sender and recipient and this key is sufficient to decrypt the secret message. Therefore it must be exchanged between sender and receiver in such a manner that an unauthorized person can in no case take possession of it.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the principle of the encryption using a key?
((OPTION_A)) THIS IS MANDATORY OPTION	The key indicates which function is used for encryption. Thereby it is more difficult to decrypt a intercepted message as the function is unknown.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	The key contains the secret function for encryption including parameters. Only a password can activate the key.
((OPTION_C)) This is optional	All functions are public, only the key is secret. It contains the parameters used for the encryption resp. decryption.
((OPTION_D)) This is optional	The key prevents the user of having to reinstall the software at each change in technology or in the functions for encryption.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	C

E	
((EXPLANATION)) This is also optional	The encoding of a message is calculated by an algorithm. If always the same algorithm would be used, it would be easy to crack intercepted messages. However, it isn't possible to invent a new algorithm whenever the old one was cracked, therefor the possibility to parameterize algorithms is needed and this is the assignment of the key. All algorithms must be public, only the keys are secret (principle of Kerckhoff, Dutch cryptographer during 19th century).

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	If the sender and receiver use different keys, the system is referred to as conventional cipher system
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Such a system is called asymmetric, two-key, or public-key cipher system

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Use Caesar's Cipher to decipher the following HQFUBSWHG WHAW
((OPTION_A)) THIS IS MANDATORY OPTION	ABANDONED LOCK
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ENCRYPTED TEXT
((OPTION_C)) This is optional	ABANDONED TEXT
((OPTION_D)) This is optional	ENCRYPTED LOCK
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher uses $C = (p+3) \text{ mod } 26$ to encrypt.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Caesar Cipher is an example of
((OPTION_A)) THIS IS MANDATORY OPTION	Poly-alphabetic Cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Mono-alphabetic Cipher
((OPTION_C)) This is optional	Multi-alphabetic Cipher
((OPTION_D)) This is optional	Bi-alphabetic Cipher
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Caesar Cipher is an example of Mono-alphabetic cipher, as single alphabets are encrypted or decrypted at a time.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Monoalphabetic ciphers are easier to break because they reflect the frequency of the original alphabet.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis
((OPTION_A)) THIS IS MANDATORY OPTION	Random Polyalphabetic, Plaintext, Playfair
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Random Polyalphabetic, Playfair, Vignere
((OPTION_C)) This is optional	Random Polyalphabetic, Vignere, Playfair, Plaintext
((OPTION_D)) This is optional	Random Polyalphabetic, Plaintext, Beaufort, Playfair
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Random Polyalphabetic is the most resistant to frequency analysis, followed by Vignere, Playfair and then Plaintext.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-
((OPTION_A)) THIS IS MANDATORY OPTION	abqdnwewuwjphfvrrtrfznsdokvl
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	abqdmwuwjphfvyyrfznydokvl
((OPTION_C)) This is optional	tbqyrvmwuwjphfvyyrfznydokvl
((OPTION_D)) This is optional	baiuvmwuwjphfoeiyrfznydokvl
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text
((OPTION_A)) THIS IS MANDATORY OPTION	nlazeiiblji
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	nlazeiiblji
((OPTION_C)) This is optional	olaaeiiblki
((OPTION_D)) This is optional	mlaaeiiblki
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Cipher text:= $C_i = P_i + k_i \text{ mod } m \text{ (mod 26).}$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Confusion hides the relationship between the ciphertext and the plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Confusion hides the relationship between the ciphertext and the key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The S-Box is used to provide confusion, as it is dependent on the unknown key.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	false
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>The S-Box is used to provide confusion, as it is dependent on the unknown key.</p> <p>The P-Box is fixed, and there is no confusion due to it, but it provides diffusion.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p>This is an example of</p> <pre> graph TD     P[P] --&gt; L1[L1]     P --&gt; R1[R1]     R1 --&gt; F1[F]     K1[K1] --&gt; F1     F1 --&gt; L2[L2]     L2 --&gt; R2[R2]     R2 --&gt; F2[F]     K2[K2] --&gt; F2     F2 --&gt; L3[L3]     L3 --&gt; Rn[Rn]     Rn --&gt; Fn[F]     Kn[Kn] --&gt; Fn     Fn --&gt; Ln[Ln]     Ln --- C[C]     </pre>
((OPTION_A)) THIS IS MANDATORY OPTION	SP Networks
((OPTION_B)) THIS IS ALSO MANDATORY	Feistel Cipher

OPTION	
((OPTION_C)) This is optional	Hash Algorithm
((OPTION_D)) This is optional	Hill Cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following slows the cryptographic algorithm – 1) Increase in Number of rounds 2) Decrease in Block size 3) Decrease in Key Size 4) Increase in Sub key Generation
((OPTION_A)) THIS IS MANDATORY OPTION	1 and 3
((OPTION_B)) THIS IS ALSO MANDATORY	2 and 3

OPTION	
((OPTION_C)) This is optional	3 and 4
((OPTION_D)) This is optional	2 and 4
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Increase in any of the above 4 leads to slowing of the cipher algorithm i.e. more computational time will be required.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES follows
((OPTION_A)) THIS IS MANDATORY OPTION	Hash Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY	Caesars Cipher

OPTION	
((OPTION_C)) This is optional	Feistel Cipher Structure
((OPTION_D)) This is optional	SP Network
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES Algorithm Cipher System consists of _____ rounds (iterations) each with a round key
((OPTION_A)) THIS IS MANDATORY OPTION	12
((OPTION_B)) THIS IS ALSO MANDATORY	18

OPTION	
((OPTION_C)) This is optional	9
((OPTION_D)) This is optional	16
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The DES Algorithm Cipher System consists of 16 rounds (iterations) each with a round key.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The DES algorithm has a key length of
((OPTION_A)) THIS IS MANDATORY OPTION	128 Bits
((OPTION_B)) THIS IS ALSO MANDATORY	32 Bits

OPTION	
((OPTION_C)) This is optional	64 Bits
((OPTION_D)) This is optional	16 Bits
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	56 bits are used, the rest 8 bits are parity bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	48, 32
((OPTION_B)) THIS IS ALSO MANDATORY	64,32

OPTION	
((OPTION_C)) This is optional	56, 24
((OPTION_D)) This is optional	32, 32
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The round key is 48 bits. The input is 32 bits

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____
((OPTION_A)) THIS IS MANDATORY OPTION	Scaling of the existing bits
((OPTION_B)) THIS IS ALSO MANDATORY	Duplication of the existing bits

<b>OPTION</b>	
((OPTION_C)) This is optional	Addition of zeros
((OPTION_D)) This is optional	Addition of ones
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The round key is 48 bits. The input is 32 bits. This input is first expanded to 48 bits (permutation plus an expansion), that involves duplication of 16 of the bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The Initial Permutation table/matrix is of size
((OPTION_A)) THIS IS MANDATORY OPTION	16x8
((OPTION_B)) THIS IS ALSO MANDATORY	12x8

OPTION	
((OPTION_C)) This is optional	8x8
((OPTION_D)) This is optional	4x8
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	There are 64 bits to permute and this requires a 8x8 matrix.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The number of unique substitution boxes in DES after the 48 bit XOR operation are
((OPTION_A)) THIS IS MANDATORY OPTION	8
((OPTION_B)) THIS IS ALSO MANDATORY	4

OPTION	
((OPTION_C)) This is optional	6
((OPTION_D)) This is optional	12
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The substitution consists of a set of 8 S-boxes, each of which accepts 6 bits as input and produces 4 bits as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	During decryption, we use the Inverse Initial Permutation (IP-1) before the IP.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	IP-1 is the first step and the last step is IP during decryption.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A preferable cryptographic algorithm should have a good avalanche effect.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY	false

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Thus statement is true as a change in one bit of the plaintext or one bit of the key should produce a change in many bits of the ciphertext. This is referred to as the avalanche effect.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the size(in bits) of the key in the SDES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	24
((OPTION_B)) THIS IS ALSO MANDATORY	16

OPTION	
((OPTION_C)) This is optional	20
((OPTION_D)) This is optional	10
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The size of the key in the SDES algorithm is 10 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	GCD(a,b) is the same as GCD( a , b ).
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY	FALSE

OPTION	
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is true. $\gcd(60,24) = \gcd(60,-24) = 12$ .

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 1160718174 and 316258250 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	882
((OPTION_B)) THIS IS ALSO MANDATORY	770

OPTION	
((OPTION_C)) This is optional	1078
((OPTION_D)) This is optional	1225
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	$\text{GCD}(1160718174, 316258250) = 1078$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 102947526 and 239821932 using Euclidean algorithm
((OPTION_A)) THIS IS MANDATORY OPTION	11
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	8
((OPTION_D)) This is optional	6
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	$\text{GCD}(102947526, 239821932) = 6.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Calculate the GCD of 8376238 and 1921023 using Euclidean algorithm.
((OPTION_A)) THIS IS MANDATORY OPTION	13
((OPTION_B)) THIS IS ALSO MANDATORY	12

OPTION	
((OPTION_C)) This is optional	17
((OPTION_D)) This is optional	7
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	$\text{GCD}(8376238, 1921023) = 13.$

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 1234 mod 4321 is
((OPTION_A)) THIS IS MANDATORY OPTION	3239
((OPTION_B)) THIS IS ALSO MANDATORY	3213

OPTION	
((OPTION_C)) This is optional	3242
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The multiplicative Inverse of 1234 mod 4321 is 3239.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The multiplicative Inverse of 550 mod 1769 is
((OPTION_A)) THIS IS MANDATORY OPTION	434
((OPTION_B)) THIS IS ALSO MANDATORY	224

OPTION	
((OPTION_C)) This is optional	550
((OPTION_D)) This is optional	Does not exist
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The multiplicative Inverse of 550 mod 1769 is 550.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	<p><b>You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,</b></p> $A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$ <p><b>Is the given matrix 'A', a valid key to be used for encryption?</b></p>
((OPTION_A)) THIS IS MANDATORY OPTION	Yes
((OPTION_B))	No

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Can't be determined
((OPTION_D)) This is optional	Data insufficient
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist.</p> <p>Here, in this case,</p> $  A   = 0$ <p>Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the <a href="#">Hill cipher</a>.</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	The input text is divided into two parts: one being left half and another one being right half.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Swapping of the left and right halves are performed after each round.
((OPTION_C)) This is optional	The plain text is converted into a matrix form first
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Among the following given options, chose the strongest encryption technique

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	DES ( Data Encryption Standard))
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Double DES
((OPTION_C)) This is optional	Triple DES
((OPTION_D)) This is optional	AES (Advance Encryption Standard)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	<p><b>Consider the following steps,</b></p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift Rows</li> </ul>

IMAGES ALSO	<p>iii. Mix columns iv. Add round key</p> <p><b>The above steps are performed in each round of which of the following ciphers?</b></p>
((OPTION_A))  THIS IS MANDATORY OPTION	Rail fence cipher
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Data Encryption Standard (DES)
((OPTION_C))  This is optional	Advance Encryption Standard (AES)
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
--	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ algorithm transforms ciphertext to plaintext.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ cipher replaces one character with another character.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ cipher reorders the plaintext characters to create a ciphertext.
((OPTION_A)) THIS IS MANDATORY OPTION	substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ attack can endanger the security of the Diffie-Hellman method if two parties are not authenticated to each other.
((OPTION_A)) THIS IS MANDATORY OPTION	man-in-the-middle
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ciphertext attack
((OPTION_C)) This is optional	plaintext attack
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the receiver uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either a or b
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	DES is a(n) _____ method adopted by the U.S. government.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	either (a) or (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ECB and CBC are _____ ciphers.
((OPTION_A)) THIS IS MANDATORY OPTION	block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	stream
((OPTION_C)) This is optional	field
((OPTION_D)) This is optional	none of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ cipher, the same key is used by both the sender and receiver.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	ciphers can be categorized into two broad categories: monoalphabetic and polyalphabetic.
((OPTION_A)) THIS IS MANDATORY OPTION	Substitution
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
---	---

OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In an asymmetric-key cipher, the sender uses the _____ key.
((OPTION_A)) THIS IS MANDATORY OPTION	private
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	public
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In a(n) _____ cipher, a pair of keys is used.
((OPTION_A)) THIS IS MANDATORY OPTION	symmetric-key
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	asymmetric-key
((OPTION_C)) This is optional	either (a) or (b)
((OPTION_D)) This is optional	neither (a) nor (b)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	2
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	AES uses a _____ bit block size and a key size of _____ bits.
((OPTION_A)) THIS IS MANDATORY OPTION	128; 128 or 256
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	64; 128 or 192
((OPTION_C)) This is optional	256; 128, 192, or 256
((OPTION_D)) This is optional	128; 128, 192, or 256
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	It uses a 128-bit block size and a key size of 128, 192, or 256 bits.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Like DES, AES also uses Feistel Structure.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES does not use a Feistel structure. Instead, each full round consists of four separate functions: -byte substitution -Permutation -arithmetic operations over a finite field, and -XOR with a key.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The 4x4 byte matrices in the AES algorithm are called
((OPTION_A)) THIS IS MANDATORY OPTION	States
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Words
((OPTION_C)) This is optional	Transitions
((OPTION_D)) This is optional	Permutations
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is a type of substitution cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	poly alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Transposition cipher
((OPTION_C)) This is optional	Columnar cipher
((OPTION_D)) This is optional	Rail fence cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In substitution cipher the plain text is replaced by cipher text according to a fixed rule. There are two types of substitution cipher- Mono alphabetic and Poly alphabetic cipher.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following correctly defines poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	a substitution based cipher which uses multiple substitution at different positions
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a substitution based cipher which uses fixed substitution over entire message
((OPTION_C)) This is optional	a transposition based cipher which uses multiple substitution at different positions
((OPTION_D)) This is optional	A transposition based cipher which uses fixed substitution over entire message
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Poly alphabetic cipher is a type of substitution cipher. It uses multiple substitution at different positions in order to cipher the plain text.

((MARKS)) QUESTION IS OF	1
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a type of poly alphabetic cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Rotor cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hill cipher
((OPTION_C)) This is optional	One time pad cipher
((OPTION_D)) This is optional	Affine cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	In poly alphabetic cipher each symbol of plain text is replaced by a different cipher text regardless of its occurrence. Out of the given options, only affine cipher is not a poly alphabetic cipher.

((MARKS)) QUESTION IS OF	2
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HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	We are provided the plain text "SUN". You need to convert the given plain text into ciphertext under the Ceasar cipher encryption technique. Which of the following options is the correct ciphertext for the given text if the key is 2?
((OPTION_A)) THIS IS MANDATORY OPTION	UWP
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	NUS
((OPTION_C)) This is optional	WUP
((OPTION_D)) This is optional	QSL
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<p>In the Caesar cipher technique, the encryption is performed as follows,</p> $E(P, K) = (P + K) \text{ mod } 26$ <p>Therefore,</p> $E(S, 2) = (18 + 2) \text{ mod } 26 = 20 = U$ $E(U, 2) = (20 + 2) \text{ mod } 26 = 22 = W$ $E(N, 2) = (13 + 2) \text{ mod } 26 = 15 = P$ <p>Hence, the ciphertext is "UWP".</p>

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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following cipher techniques include the involvement of matrix operations in their algorithms of encryption and decryption?
((OPTION_A)) THIS IS MANDATORY OPTION	<u>Hill Cipher</u>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<u>Playfair cipher</u>
((OPTION_C)) This is optional	Both a and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also	The hill cipher includes a square matrix as the key, and in Playfair cipher, we create a 5X5 matrix using the given key string. Hence,

optional	both these ciphers include the use of matrices.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Playfair cipher is an example of _____
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C)) This is optional	transposition cipher
((OPTION_D)) This is optional	additive cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	Playfair cipher is a substitution cipher. It falls under the category of poly alphabetic cipher as it uses multiple substitution at different positions in order to cipher the plain text.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Encryption in Playfair cipher is done using _
((OPTION_A)) THIS IS MANDATORY OPTION	a 5x5 table
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a 13x2 table
((OPTION_C)) This is optional	vigenere table
((OPTION_D)) This is optional	a 6x6 table
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A

((EXPLANATION)) This is also optional	
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the plain text corresponding to cipher text "BPKYFS" if playfair cipher is used with keyword as "SECRET" (assuming j is combined with i)?
((OPTION_A))  THIS IS MANDATORY OPTION	INDIAN
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	WORLD
((OPTION_C))  This is optional	DOLLAR
((OPTION_D))  This is optional	HELLO
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C

((EXPLANATION)) This is also optional	To decrypt the message we follow the reverse procedure. The table is formed in the same manner. Applying this we get the plain text to be "DOLLAR".
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair are identical?
((OPTION_A)) THIS IS MANDATORY OPTION	then that pair is neglected
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	a null(or x) is added in between the letters
((OPTION_C)) This is optional	one of the identical letter is replaced by some other letter
((OPTION_D)) This is optional	then both of the letters are replaced by the letter appearing just next in the row
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	In playfair cipher if the letters in a pair are identical then a null is added in between the letters. Any letter can be used as a null as long as that letter is not the one being repeated.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same row?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter at the corner of the row
((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B

((EXPLANATION)) This is also optional	If the letters in a pair appear in same row then they are replaced by the letters appearing immediately right to them respectively. If the element to be replaced appears at the corner of the row then we wrap around to the left side of that row.
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((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the ciphered text if the string “SANFOUNDRY” is given as input to the code of playfair cipher with keyword as “SECRET” (assuming j is combined with i)?
((OPTION_A)) THIS IS MANDATORY OPTION	ZHQAPNPAFR
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	AHQAPNPAFR
((OPTION_C)) This is optional	HAQAPNPAFR
((OPTION_D)) This is optional	QHAAPNPAFR
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or	B

E	
((EXPLANATION)) This is also optional	<p>For encrypting the plain text using playfair cipher we use a <math>5 \times 5</math> table that is constructed by using keyword. Then we apply rules for encryption in order to get the ciphered text. Table is given as under-</p> <p>S E C R T</p> <p>A B D F G</p> <p>H I K L M</p> <p>N O P Q U</p> <p>V W X Y Z</p>

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair appear in same column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letters at the corner of the row
((OPTION_D))	that pair is neglected

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	If the letters in a pair appear in the same column then they are replaced by the letters appearing immediately below them respectively. If the element to be replaced appears at the corner of the column then we wrap around to the top side of that column.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the rule for encryption in playfair cipher if the letters in a pair does not appear in same row or column?
((OPTION_A)) THIS IS MANDATORY OPTION	they are replaced by the letter appearing immediately below them respectively
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	they are replaced by the letter appearing immediately right to them respectively
((OPTION_C)) This is optional	they are replaced by the letter of the same row at the corner of the rectangle defined by the original pair respectively

((OPTION_D)) This is optional	that pair is neglected
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	If the letters in a pair does not appear in same row or column then they are replaced by the letters of the same row at the corner of the rectangle defined by the original pair respectively. The order of letters should be maintained.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Columnar cipher falls under the category of?
((OPTION_A)) THIS IS MANDATORY OPTION	mono-alphabetic cipher
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	poly-alphabetic cipher
((OPTION_C))	additive cipher

This is optional	
((OPTION_D)) This is optional	Transposition cipher
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Columnar cipher is a transposition cipher. It falls under the category of transposition cipher as it encrypts the plain text by rearranging its letters.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following ciphered text would have NOT used transposition cipher for encryption of the plain text “CIPHER”?
((OPTION_A)) THIS IS MANDATORY OPTION	EPIHRC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	EHIPCR
((OPTION_C))	DTIPRC

This is optional	
((OPTION_D))	HRIPEC
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	We know that transposition cipher encrypts the plain text by shuffling the letters of the plain text. So out of the given options, only “DTIPRC” does not have the same set of letters as “CIPHER”.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many columns do we need to have in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	4
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	5
((OPTION_C))	6

This is optional	
((OPTION_D))	7
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So in this case it will be equal to 6.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What will be the encrypted text corresponding to plain text “CLASSIFIED” using columnar transposition cipher with a keyword as “GAMES”?
((OPTION_A)) THIS IS MANDATORY OPTION	LFDSIASECI
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SECIAISDFL
((OPTION_C))	CILFAISESD

This is optional																					
((OPTION_D))	IFSECIAISD																				
This is optional																					
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																					
((CORRECT_CH OICE)) Either A or B or C or D or E	D																				
((EXPLANATION )) This is also optional	<p>For encrypting using columnar cipher we have to arrange the letters of the plain text in a table which has the same number of columns as the letters of the keyword. Then the letters of the keyword are arranged in alphabetical order and we read along each column.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>1</td><td>4</td><td>2</td><td>5</td></tr> <tr><td>G</td><td>A</td><td>M</td><td>E</td><td>S</td></tr> <tr><td>C</td><td>L</td><td>A</td><td>S</td><td>S</td></tr> <tr><td>I</td><td>F</td><td>I</td><td>E</td><td>D</td></tr> </table> <p>So the ciphered text will be “IFSECIAISD”.</p>	3	1	4	2	5	G	A	M	E	S	C	L	A	S	S	I	F	I	E	D
3	1	4	2	5																	
G	A	M	E	S																	
C	L	A	S	S																	
I	F	I	E	D																	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	How many rows will the letters of the plain text occupy in the table, that is used for encryption in columnar transposition cipher when a given keyword is “SECRET” and plain text is “SANFOUNDRY”?
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B))	2

THIS IS ALSO MANDATORY OPTION																			
((OPTION_C)) This is optional	3																		
((OPTION_D)) This is optional	4																		
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option																			
((CORRECT_CHOICE)) Either A or B or C or D or E	B																		
((EXPLANATION)) This is also optional	<p>Explanation: The number of columns in the table used for the purpose encryption in columnar transposition cipher will always be equal to the number of letters in the keyword. So when we will write the letters of the plain text row wise then there will be 2 rows of plain text in this case. The table is shown below :-</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>S</td><td>E</td><td>C</td><td>R</td><td>E</td><td>T</td> </tr> <tr> <td>1</td><td>S</td><td>A</td><td>N</td><td>F</td><td>O</td><td>U</td> </tr> <tr> <td>2</td><td>N</td><td>D</td><td>R</td><td>Y</td> </tr> </table>	S	E	C	R	E	T	1	S	A	N	F	O	U	2	N	D	R	Y
S	E	C	R	E	T														
1	S	A	N	F	O	U													
2	N	D	R	Y															

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following statement is not true regarding columnar transposition cipher?
((OPTION_A)) THIS IS	probability of error is high while deciphering

<b>MANDATORY OPTION</b>	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	it cannot be combined with other ciphers
((OPTION_C))  This is optional	it is a traditional symmetric cipher
((OPTION_D))  This is optional	it is a weak cipher
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Although columnar transposition cipher is a weak cipher in itself. But it can be combined with other substitution ciphers so as to improve its security. The probability of error remains high while decoding columnar cipher as it is a lengthy process

<b>((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)</b>	1
<b>((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO</b>	_____ is another data hiding technique which can be used in conjunction with cryptography for the extra-secure method of protecting data.
<b>((OPTION_A))</b>	Cryptography

THIS IS MANDATORY OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Steganography
((OPTION_C)) This is optional	Tomography
((OPTION_D)) This is optional	Chorography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Steganography is the technique of hiding data in another raw data. Steganography is another data hiding technique which can be used in conjunction with cryptography for an extra-secure method of protecting data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is hiding of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Steganography
((OPTION_D))  This is optional	Chorography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Steganography helps in hiding any form of data within data, where we can hide images, text, and other messages within images, videos, music or recording files.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A _____ tool permits security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((OPTION_A))  THIS IS MANDATORY OPTION	Cryptography
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C))  This is optional	Chorography
((OPTION_D))  This is optional	Steganography
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	A steganography tool is a software tool that permits a security professional or a hacker to embed hidden data within a carrier file like an image or video which can later be extracted from them.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The main motive for using steganography is that hackers or other users can hide a secret message behind a _____

((OPTION_A))  THIS IS MANDATORY OPTION	special file
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	ordinary file
((OPTION_C))  This is optional	program file
((OPTION_D))  This is optional	encrypted file
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	The main motive for using steganography is that hackers or other users can hide a secret message behind ordinary files. Some steganography tools are SSuite Picsel, rSteg etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	People will normally think it as a normal/regular file and your secret message will pass on without any _____

((OPTION_A)) THIS IS MANDATORY OPTION	Suspicion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	cracking
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Steganography techniques help hackers or other users to conceal covert message behind regular files. People will normally think it as a normal/regular file and your secret message will pass on without any suspicion.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	By using _____ you can diminish the chance of data leakage

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Cryptography
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tomography
((OPTION_C)) This is optional	Chorography
((OPTION_D)) This is optional	Steganography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Hackers or other cyber criminals target ordinary files to hide different data or information within another data file. By using steganography, you can diminish the chance of data leakage.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	Which of the following is a mode of operation for the Block ciphers in cryptography?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	Electronic Code Book (ECB)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Cipher Block Chaining (CBC)
((OPTION_C)) This is optional	Counter (CTR) mode
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	For which of the following should EBC (Electronic Code Book) process not be used for encryption?

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	For large block sizes
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	For fixed block sizes
((OPTION_C)) This is optional	For small block sizes
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	It is preferred that the block size in the ECB technique must be greater than 64 bits. If not, the text is padded to make it of the required length. This is due to some particular words and phrases that may be reused again often so that the same repetitive part of ciphertext can emerge as mixed.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	Which of the following is the main disadvantage of the ECB (Electronic Code Book)?

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	It requires large block size
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Padding is done to make the plain text divisible into blocks of fixed size
((OPTION_C)) This is optional	It is prone to cryptanalysis since there is a direct relationship between plain text and cipher text.
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	In <u>ECB</u> , there lies a direct relation between the plain text and the ciphertext. Therefore, it is easy for an outsider to break the encryption logic and steal the data.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options is not correct according to the definition of the Cipher Block Chaining (CBC)?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC is a mode of operation for stream ciphers.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Initialization vector (IV) is used in CBC in the initial phase.
((OPTION_C)) This is optional	It has better resistive nature towards cryptanalysis than ECB
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	<a href="#">CBC</a> which stands for Cipher Block chaining is a mode of operation for block ciphers and not for stream ciphers.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following modes of operations can be followed for both stream ciphers as well as block ciphers?
((OPTION_A)) THIS IS MANDATORY OPTION	CBC (Cipher Block Chaining)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ECB (Electronic Code Book)
((OPTION_C)) This is optional	CFB (Cipher text Feed Back)
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	<b>CFB</b> is primarily a mode to derive some characteristics of a stream cipher from a block cipher on the cryptography in cryptoanalysis.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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<p>((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO</p>	<p>All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?</p> <ul style="list-style-type: none"> <li>i. Substitution bytes</li> <li>ii. Shift rows</li> <li>iii. Mix columns</li> <li>iv. Add round key</li> </ul>
<p>((OPTION_A)) THIS IS MANDATORY OPTION</p>	<p>i</p>
<p>((OPTION_B)) THIS IS ALSO MANDATORY OPTION</p>	<p>iii</p>
<p>((OPTION_C)) This is optional</p>	<p>All of the mentioned</p>
<p>((OPTION_D)) This is optional</p>	<p>None of the mentioned</p>
<p>((OPTION_E)) This is optional. If optional keep empty so that system will skip this option</p>	
<p>((CORRECT_CHOICE)) Either A or B or C or D or E</p>	<p>B</p>
<p>((EXPLANATION)) This is also optional</p>	<p>In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.</p>

<p>((MARKS))</p>	<p>1</p>
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"The number of rounds in the AES algorithm depends upon the key size being used." Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	128 key size: 10 rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	192 key size: 12 rounds
((OPTION_C)) This is optional	256 key size: 14 rounds
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?
((OPTION_A)) THIS IS MANDATORY OPTION	Avalanche effect
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Completeness
((OPTION_C)) This is optional	Both a. and b
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS))	2
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	For the AES-128 algorithm there are _____ similar rounds and _____ round is different.
((OPTION_A)) THIS IS MANDATORY OPTION	2 pair of 5 similar rounds ; every alternate
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	9 ; the last
((OPTION_C)) This is optional	8 ; the first and last
((OPTION_D)) This is optional	10 ; no
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the 4 operations are false for each round in the AES algorithm? i) Substitute Bytes ii) Shift Columns iii) Mix Rows iv) XOR Key
((OPTION_A)) THIS IS MANDATORY OPTION	i) only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii) iii) and iv)
((OPTION_C)) This is optional	ii) and iii)
((OPTION_D)) This is optional	only iv
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	AES rounds involve substitute bytes, shift rows, mix columns and addition of round key.

((MARKS))	1
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QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	There is an addition of round key before the start of the AES round algorithms.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	In AES the final round contains only three transformations, and there is an initial single transformation (Add Round Key) before the first round which can be considered Round 0. Each transformation takes 4x4 matrixes as input and produces a 4x4 matrix as output.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1																
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the Shifted Row transformation for the matrix bellow?  <table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_A))  THIS IS MANDATORY OPTION	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>6B</td><td>77</td><td>A4</td><td>6B</td></tr> <tr> <td>AD</td><td>01</td><td>F0</td><td>63</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	FE	72	2B	D7	6B	77	A4	6B	AD	01	F0	63	30	D7	AF	FE
FE	72	2B	D7														
6B	77	A4	6B														
AD	01	F0	63														
30	D7	AF	FE														
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	<table border="1"> <tr> <td>72</td><td>2B</td><td>D7</td><td>FE</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>63</td><td>AD</td><td>01</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	72	2B	D7	FE	A4	6B	6B	77	63	AD	01	F0	30	D7	AF	FE
72	2B	D7	FE														
A4	6B	6B	77														
63	AD	01	F0														
30	D7	AF	FE														
((OPTION_C))  This is optional	<table border="1"> <tr> <td>FE</td><td>72</td><td>2B</td><td>D7</td></tr> <tr> <td>77</td><td>A4</td><td>6B</td><td>6B</td></tr> <tr> <td>F0</td><td>63</td><td>AD</td><td>01</td></tr> <tr> <td>FE</td><td>30</td><td>D7</td><td>AF</td></tr> </table>	FE	72	2B	D7	77	A4	6B	6B	F0	63	AD	01	FE	30	D7	AF
FE	72	2B	D7														
77	A4	6B	6B														
F0	63	AD	01														
FE	30	D7	AF														
((OPTION_D))  This is optional	<table border="1"> <tr> <td>D7</td><td>FE</td><td>72</td><td>2B</td></tr> <tr> <td>A4</td><td>6B</td><td>6B</td><td>77</td></tr> <tr> <td>01</td><td>AD</td><td>63</td><td>F0</td></tr> <tr> <td>30</td><td>D7</td><td>AF</td><td>FE</td></tr> </table>	D7	FE	72	2B	A4	6B	6B	77	01	AD	63	F0	30	D7	AF	FE
D7	FE	72	2B														
A4	6B	6B	77														
01	AD	63	F0														
30	D7	AF	FE														

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The Shift Rows transformation consists of: -Not shifting the first row of the state array at all. -Circularly shifting the second row by one byte to the left. -Circularly shifting the third row by two bytes to the left, and -Circularly shifting the last row by three bytes to the left.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not weak key in DES
((OPTION_A)) THIS IS MANDATORY OPTION	0x0101010101010101
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	0xEFABFEFEFEFEFEFE
((OPTION_C)) This is optional	0x1F1F1F1F0E0E0E0E
((OPTION_D))	0xFFFFFFFFFFFFFF

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple-DES has _____ keys.
((OPTION_A)) THIS IS MANDATORY OPTION	1
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	2
((OPTION_C)) This is optional	5
((OPTION_D))	4

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a encryption technique which uses two instance of DES on same plain text.
((OPTION_A)) THIS IS MANDATORY OPTION	Double DES
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Tripple DES
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack which can be used to break through double DES.
((OPTION_A)) THIS IS MANDATORY OPTION	Brute force
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	meet-in-the middle
((OPTION_C)) This is optional	Timing
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Triple DES involve __
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption, Decryption, Decryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Decryption ,Encryption, Encryption
((OPTION_C)) This is optional	Decryption ,Encryption, Decryption
((OPTION_D))	Encryption, Decryption, Encryption

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ involves feeding the successive output blocks from the underlying block cipher back to it
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	OFB
((OPTION_D))	CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is counter-based version of CFB mode without the feedback
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	counter
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below mode is independent of previous output
((OPTION_A)) THIS IS MANDATORY OPTION	ECB
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC
((OPTION_C)) This is optional	CFB
((OPTION_D))	OFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Errors get propagated in all modes except ___and ___
((OPTION_A)) THIS IS MANDATORY OPTION	ECB,COUNTER
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CBC,COUNTER
((OPTION_C)) This is optional	CFB,COUNTER
((OPTION_D))	OFB,CFB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Patterns are not preserved in ___ mode
((OPTION_A)) THIS IS MANDATORY OPTION	CBC
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	CFB
((OPTION_C)) This is optional	Both CBC and CFB
((OPTION_D))	ECB

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	A small change in plaintext results in the very great change in the cipher text indicates which characteristic
((OPTION_A)) THIS IS MANDATORY OPTION	completeness
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Strong key
((OPTION_C)) This is optional	Avalanche effect
((OPTION_D))	All of the above

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ ciphers, the plaintext is processed one bit at a time i.e. one bit of plaintext is taken, and a series of operations is performed on it to generate one bit of cipher text.
((OPTION_A)) THIS IS MANDATORY OPTION	Block
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Stream
((OPTION_C)) This is optional	Both
((OPTION_D))	None of these

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	More number of _____ provide more secure system in feistel cipher.
((OPTION_A)) THIS IS MANDATORY OPTION	rounds
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	keys
((OPTION_C)) This is optional	encryption
((OPTION_D)) This is optional	Function
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	The number of rounds used in a Feistel Cipher depends on desired security from the system. More number of rounds provide more secure system. But at the same time, more rounds mean the inefficient slow encryption and decryption processes..

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a threat to information security?
((OPTION_A)) THIS IS MANDATORY OPTION	Disaster
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Eavesdropping
((OPTION_C)) This is optional	Information leakage
((OPTION_D)) This is optional	Unchanged default password
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Disaster, eavesdropping and information leakage come under information security threats whereas not changing the default password of any system, hardware or any software comes under the category of vulnerabilities that the user may pose to its system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Compromising confidential information comes under
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	Threats are anything that may cause damage or harm to a computer system, individual or any information. Compromising of confidential information means extracting out sensitive data from a system by illegal manner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Lack of access control policy is a
((OPTION_A)) THIS IS MANDATORY OPTION	Bug
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Threat
((OPTION_C)) This is optional	Vulnerability
((OPTION_D)) This is optional	Attack
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Access control policies are incorporated to a security system for restricting of unauthorised access to any logical or physical system. Every security compliance program must need this as a fundamental component. Those systems which lack this feature is vulnerable.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Possible threat to any information cannot be
((OPTION_A)) THIS IS MANDATORY OPTION	reduced
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	transferred
((OPTION_C)) This is optional	protected
((OPTION_D)) This is optional	ignored
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	When there lies a threat to any system, safeguards can be implemented, outsourced, distributed or transferred to some other system, protected using security tools and techniques but cannot be ignored.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	According to the CIA Triad, which of the below-mentioned element is not considered in the triad?
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	According to the CIA triad the three components that a security need is the Confidentiality, Integrity, Availability (as in short read as

		
CIA).		

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When you use the word _____ it means you are protecting your data from getting disclosed.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	

((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Confidentiality is what every individual prefer in terms of physical privacy as well as digital privacy. This term means our information needs to be protected from getting disclose to unauthorised parties, for which we use different security mechanisms like password protection, biometric security, OTPs (One Time Passwords) etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ means the protection of data from modification by unknown users.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	Non-repudiation
((OPTION_E)) This is optional. If optional keep empty so that system will skip	

this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	A information only seems valuable if it is correct and do not get modified during its journey in the course of arrival. The element integrity makes sure that the data sent or generated from other end is correct and is not modified by any unauthorised party in between.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	When integrity is lacking in a security system, _____ occurs.
((OPTION_A)) THIS IS MANDATORY OPTION	Database hacking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data deletion
((OPTION_C)) This is optional	Data tampering
((OPTION_D)) This is optional	Data leakage
((OPTION_E)) This is optional. If optional keep empty so that	

system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The term data tampering is used when integrity is compromised in any security model and checking its integrity later becomes costlier. Example: let suppose you sent \$50 to an authorised person and in between a Man in the Middle (MiTM) attack takes place and the value has tampered to \$500. This is how integrity is compromised.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	of information means, only authorised users are capable of accessing the information.
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Non-repudiation
((OPTION_D)) This is optional	Availability
((OPTION_E)) This is optional.	

If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Information seems useful only when right people (authorised users) access it after going through proper authenticity check. The key element availability ensures that only authorised users are able to access the information.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Why these 4 elements (confidentiality, integrity, authenticity & availability) are considered fundamental?
((OPTION_A)) THIS IS MANDATORY OPTION	They help understanding hacking better
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	They are key elements to a security breach
((OPTION_C)) This is optional	They help understands security and its components better
((OPTION_D)) This is optional	They help to understand the cyber-crime better
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	The four elements of security viz. confidentiality, integrity, authenticity & availability helps in better understanding the pillars of security and its different components.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	This helps in identifying the origin of information and authentic user. This referred to here as
((OPTION_A)) THIS IS MANDATORY OPTION	Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity
((OPTION_C)) This is optional	Authenticity
((OPTION_D)) This is optional	Availability
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The key element, authenticity helps in assuring the fact that the information is from the original source.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data _____ is used to ensure confidentiality.
((OPTION_A)) THIS IS MANDATORY OPTION	Encryption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Locking
((OPTION_C)) This is optional	Deleting
((OPTION_D)) This is optional	Backup
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Data encryption is the method of converting plain text to cipher-text and only authorised users can decrypt the message back to plain text. This preserves the confidentiality of data

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is not a proper method of maintaining AUTHENTICATION?
((OPTION_A)) THIS IS MANDATORY OPTION	Biometric verification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ID and password based verification
((OPTION_C)) This is optional	2-factor authentication
((OPTION_D)) This is optional	switching off the phone
((OPTION_E))	

This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Switching off the phone in the fear of preserving the confidentiality of data is not a proper solution for data confidentiality. Fingerprint detection, face recognition, password-based authentication, two-step verifications are some of these.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Data integrity gets compromised when _____ and _____ are taken control off.
((OPTION_A)) THIS IS MANDATORY OPTION	Access control, file deletion
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Network, file permission
((OPTION_C)) This is optional	Access control, file permission
((OPTION_D)) This is optional	Network, system

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	The two key ingredients that need to be kept safe are: access control & file permission in order to preserve data integrity.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	One common way to maintain data availability is
((OPTION_A)) THIS IS MANDATORY OPTION	Data clustering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data backup
((OPTION_C)) This is optional	Data recovery
((OPTION_D)) This is optional	Data Altering

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	For preventing data from data-loss, or damage data backup can be done and stored in a different geographical location so that it can sustain its data from natural disasters & unpredictable events.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hackers who help in finding bugs and vulnerabilities in a system & don't intend to crack a system are termed as
((OPTION_A)) THIS IS MANDATORY OPTION	Black Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Grey Hat Hackers
((OPTION_D)) This is optional	Red Hat Hackers

((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	White Hat Hackers are cyber security analysts and consultants who have the intent to help firms and Governments in the identification of loopholes as well as help to perform penetration tests for securing a system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is the legal form of hacking based on which jobs are provided in IT industries and firms?
((OPTION_A)) THIS IS MANDATORY OPTION	Cracking
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Non ethical Hacking
((OPTION_C)) This is optional	Ethical hacking
((OPTION_D))	Hactivism

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Ethical Hacking is an ethical form of hacking done by white-hat hackers for performing penetration tests and identifying potential threats in any organizations and firms.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	They are nefarious hackers, and their main motive is to gain financial profit by doing cyber crimes. Who are "they" referred to here?
((OPTION_A)) THIS IS MANDATORY OPTION	Gray Hat Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	White Hat Hackers
((OPTION_C)) This is optional	Hactivists
((OPTION_D))	Black Hat Hackers

This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Black Hat hackers also termed as 'crackers' and are a major type of cyber criminals who take unauthorized access in user's account or system and steal sensitive data or inject malware into the system for their profit or to harm the organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are the combination of both white as well as black hat hackers.
((OPTION_A)) THIS IS MANDATORY OPTION	Grey Hat hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Green Hat hackers
((OPTION_C)) This is optional	Blue Hat Hackers

((OPTION_D)) This is optional	Red Hat Hacker
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Grey Hat Hackers have a blending character of both ethical as well as un-ethical hacker. They hack other's systems for fun but do not harm the system, exploits bugs and vulnerabilities in network without the knowledge of the admin or the owner.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The amateur or newbie in the field of hacking who don't have many skills about coding and in-depth working of security and hacking tools are called _____
((OPTION_A)) THIS IS MANDATORY OPTION	Sponsored Hackers
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Hactivists
((OPTION_C))	Script Kiddies

This is optional	
((OPTION_D))	Whistle Blowers
This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Script Kiddies are new to hacking and at the same time do not have many interests in developing coding skills or find bugs of their own in systems; rather they prefer downloading of available tools (developed by elite hackers) and use them to break any system or network. They just try to gain attention of their friend circles.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Suicide Hackers are those _____
((OPTION_A)) THIS IS MANDATORY OPTION	who break a system for some specific purpose with or without keeping in mind that they may suffer long term imprisonment due to their malicious activity
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	individuals with no knowledge of codes but an expert in using hacking tools

((OPTION_C)) This is optional	who know the consequences of their hacking activities and hence try to prevent them by erasing their digital footprints
((OPTION_D)) This is optional	who are employed in an organization to do malicious activities on other firms
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Suicide hackers are those who break into any network or system with or without knowing the consequences of the cyber crime and its penalty. There are some suicide hackers who intentionally do crimes and get caught to bring their names in the headlines.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Criminal minded individuals who work for terrorist organizations and steal information of nations and other secret intelligence are _____
((OPTION_A)) THIS IS MANDATORY OPTION	State sponsored hackers
((OPTION_B)) THIS IS ALSO MANDATORY	Blue Hat Hackers

OPTION	
((OPTION_C)) This is optional	Cyber Terrorists
((OPTION_D)) This is optional	Red Hat Hackers
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Cyber Terrorists are very expert programmers and cyber criminals who hide themselves while doing malicious activities over the internet and they are smart enough to hide themselves or their tracks of action. They are hired for gaining unauthorised access to nation's data centres or break into the network of intelligence agencies.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are those individuals who maintain and handles IT security in any firm or organization.
((OPTION_A)) THIS IS MANDATORY OPTION	IT Security Engineer
((OPTION_B))	Cyber Security Interns

THIS IS ALSO MANDATORY OPTION	
((OPTION_C)) This is optional	Software Security Specialist
((OPTION_D)) This is optional	Security Auditor
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	This is an intermediary level of position of an individual in an organization or firm who builds and preserves different systems and its associated security tools of the firm of organization to which he/she belongs.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Role of security auditor is to _____
((OPTION_A)) THIS IS MANDATORY OPTION	secure the network

((OPTION_B)) THIS IS ALSO MANDATORY OPTION	probe for safety and security of organization's security components and systems
((OPTION_C)) This is optional	detects and prevents cyber attacks and threats to organization
((OPTION_D)) This is optional	does penetration testing on different web applications
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH_OICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Security auditors are those who conduct auditing of various computer and network systems on an organization or company and reports the safety and security issues as well as helps in suggesting improvements or enhancements in any particular system that is threat prone.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ are senior level corporate employees who have the role and responsibilities of creating and designing secured network or security structures.
((OPTION_A)) THIS IS MANDATORY	Ethical Hackers

OPTION	
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Chief Technical Officer
((OPTION_C)) This is optional	IT Security Engineers
((OPTION_D)) This is optional	Security Architect
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	Security architect are those senior grade employees of an organization who are in charge of building, designing, implementing and testing of secured network topologies, protocols as well as secured computers in an organization.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Governments hired some highly skilled hackers. These types of hackers are termed as _____
((OPTION_A)) THIS IS	Special Hackers

<b>MANDATORY OPTION</b>	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Government Hackers
((OPTION_C))  This is optional	Cyber Intelligence Agents
((OPTION_D))  This is optional	Nation / State sponsored hackers
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Nation / State sponsored hackers are specific individuals who are employed or hired by the government of that nation or state and protect the nation from cyber terrorists and other groups or individuals and to reveal their plans, communications and actions.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The full form of Malware is _____
((OPTION_A))	Malfunctioned Software

THIS IS MANDATORY OPTION	
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Multipurpose Software
((OPTION_C))  This is optional	) Malicious Software
((OPTION_D))  This is optional	Malfunctioning of Security
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Different types of harmful software and programs that can pose threats to a system, network or anything related to cyberspace are termed as Malware. Examples of some common malware are Virus, Trojans, Ransomware, spyware, worms, rootkits etc.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Who deploy Malwares to a system or network?

((OPTION_A)) THIS IS MANDATORY OPTION	Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Criminal organizations, gray hat hackers, Malware developers, Penetration testers
((OPTION_C)) This is optional	) Criminal organizations, Black hat hackers, software developers, cyber-terrorists
((OPTION_D)) This is optional	Criminal organizations, White hat hackers, malware developers, cyber-terrorists
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	Criminal-minded organizations, groups and individuals cyber-terrorist groups, Black hat hackers, malware developers etc are those who can deploy malwares to any target system or network in order to deface that system.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE	_____ is a code injecting method used for attacking the database of a system / website.

IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	HTML injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	SQL Injection
((OPTION_C)) This is optional	Malicious code injection
((OPTION_D)) This is optional	XML Injection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	SQLi (Structured Query Language Injection) is a popular attack where SQL code is targeted or injected; for breaking the web application having SQL vulnerabilities. This allows the attacker to run malicious code and take access to the database of that server.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN	This attack can be deployed by infusing a malicious code in a website's comment section. What is "this" attack referred to here?

CAN HAVE IMAGES ALSO	
((OPTION_A)) THIS IS MANDATORY OPTION	SQL injection
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	HTML Injection
((OPTION_C)) This is optional	Cross Site Scripting (XSS)
((OPTION_D)) This is optional	Cross Site Request Forgery (XSRF)
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	XSS attack can be infused by putting the malicious code (which gets automatically run) in any comment section or feedback section of any webpage (usually a blogging page). This can hamper the reputation of a site and the attacker may place any private data or personal credentials.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))	An attempt to harm, damage or cause threat to a system or network is broadly termed as _____

ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	
((OPTION_A))  THIS IS MANDATORY OPTION	Cyber-crime
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Cyber Attack
((OPTION_C))  This is optional	System hijacking
((OPTION_D))  This is optional	Digital crime
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Cyber attack is an umbrella term used to classify different computer & network attacks or activities such as extortion, identity theft, email hacking, digital spying, stealing hardware, mobile hacking and physical security breaching.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the practice and precautions taken to protect valuable information from unauthorised access, recording, disclosure or destruction.
((OPTION_A)) THIS IS MANDATORY OPTION	Network Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Database Security
((OPTION_C)) This is optional	Information Security
((OPTION_D)) This is optional	Physical Security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Information Security (abbreviated as InfoSec) is a process or set of processes used for protecting valuable information from alteration, destruction, deletion or disclosure by unauthorised users.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	From the options below, which of them is not a vulnerability to information security?
((OPTION_A))  THIS IS MANDATORY OPTION	flood
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	without deleting data, disposal of storage media
((OPTION_C))  This is optional	unchanged default password
((OPTION_D))  This is optional	latest patches and updates not done
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Flood comes under natural disaster which is a threat to any information and not acts as a vulnerability to any system.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
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((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a set of conventions & rules set for communicating two or more devices residing in the same network?
((OPTION_A))  THIS IS MANDATORY OPTION	Security policies
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Protocols
((OPTION_C))  This is optional	Wireless network
((OPTION_D))  This is optional	Network algorithms
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Network protocols are designed with mechanisms for identifying devices and make connections between them. In addition, some proper rules are defined as to how data packets will be sent and received.

((MARKS))  QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The field that covers a variety of computer networks, both public and private, that are used in everyday jobs
((OPTION_A)) THIS IS MANDATORY OPTION	Artificial Intelligence
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ML
((OPTION_C)) This is optional	Network Security
((OPTION_D)) This is optional	IT
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Network security covers a variety of computer networks, both private and public. Everyday jobs like conducting transactions and communications among business and government agencies etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Network Security provides authentication and access control for resources.
((OPTION_A)) THIS IS MANDATORY OPTION	True
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	False
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which is not an objective of network security?
((OPTION_A)) THIS IS MANDATORY OPTION	Identification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Authentication
((OPTION_C)) This is optional	Access control
((OPTION_D)) This is optional	Lock
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	The Identification, Authentication and Access control are the objectives of network security. There is no such thing called lock.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of these is a part of network identification?
((OPTION_A)) THIS IS MANDATORY OPTION	UserID
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Password
((OPTION_C)) This is optional	OTP
((OPTION_D)) This is optional	fingerprint
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The answer is UserID. UserID is a part of identification. UserID can be a combination of username, user student number etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The process of verifying the identity of a user.
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Verification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	It is called an authentication. It is typically based on passwords, smart card, fingerprint, etc.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Security features that control that can access resources in the OS
((OPTION_A)) THIS IS MANDATORY OPTION	Authentication
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Identification
((OPTION_C)) This is optional	Validation
((OPTION_D)) This is optional	Access control
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	Access control refers to the security features. Applications call access control to provide resources

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An algorithm in encryption is called
((OPTION_A)) THIS IS MANDATORY OPTION	Algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Procedure
((OPTION_C)) This is optional	Cipher
((OPTION_D)) This is optional	Module
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	An algorithm used in encryption is referred to as a cipher. cipher is an algorithm for performing encryption or decryption

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2)	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The information that gets transformed in encryption is
((OPTION_A)) THIS IS MANDATORY OPTION	Plain text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Parallel text
((OPTION_C)) This is optional	Encrypted text
((OPTION_D)) This is optional	Decrypted text
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	The text that gets transformed is called plain text. The algorithm used is called cipher

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2	1
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OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The type of threats on the security of a computer system or network are..... i) Interruption ii) Interception iii) Modification iv) Creation v) Fabrication
((OPTION_A)) THIS IS MANDATORY OPTION	i, ii, iii and iv only
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	ii, iii, iv and v only
((OPTION_C)) This is optional	i, ii, iii and v only
((OPTION_D)) This is optional	All i, ii, iii, iv and v
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is computer threat?
((OPTION_A))  THIS IS MANDATORY OPTION	Phishing
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Soliciting
((OPTION_C))  This is optional	DoS attack
((OPTION_D))  This is optional	stalking
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a term used in cryptography that refers to a message before encryption or after decryption.
((OPTION_A)) THIS IS MANDATORY OPTION	Cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	PLAIN TEXT
((OPTION_C)) This is optional	Original text
((OPTION_D)) This is optional	Plain script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	The _____ is encrypted text
((OPTION_A)) THIS IS MANDATORY OPTION	cipher text
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	cipher script
((OPTION_C)) This is optional	secret text
((OPTION_D)) This is optional	secret script
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An _____ along with a key is used in the encryption
((OPTION_A)) THIS IS MANDATORY OPTION	cryptography algorithm
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	decryption algorithm
((OPTION_C)) This is optional	encryption algorithm
((OPTION_D)) This is optional	plain text algorithm
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that sensitive information are accessed only by an authorized person and kept away from those not authorized to possess them.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	Cryptography
((OPTION_D)) This is optional	Integrity
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information are in a format that is true and correct to its original purposes.
((OPTION_A)) THIS IS MANDATORY OPTION	Availability
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Confidentiality
((OPTION_C)) This is optional	integrity
((OPTION_D)) This is optional	cryptography
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures that information and resources are available to those who need them.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Availability</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Confidentiality</b>
((OPTION_C)) This is optional	<b>Cryptography</b>
((OPTION_D)) This is optional	<b>Integrity</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of identifying an individual, usually based on a username and password.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither authentication nor authorization</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is the process of giving individuals access to system objects based on their identity.
((OPTION_A)) THIS IS MANDATORY OPTION	<b>Authentication</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>Authorization</b>
((OPTION_C)) This is optional	<b>either authentication or authorization</b>
((OPTION_D)) This is optional	<b>neither congestion control nor quality of service</b>
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	when someone gains access to a server, website, or other sensitive data using someone else's account details called as
((OPTION_A)) THIS IS MANDATORY OPTION	Authorized access
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Access control
((OPTION_C)) This is optional	Unauthorized access
((OPTION_D)) This is optional	access
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Person who tries and exploits a computer system for a reason which can be money, a social cause, fun etc.called as
((OPTION_A)) THIS IS MANDATORY OPTION	Thief
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	hacker
((OPTION_C)) This is optional	attacker
((OPTION_D)) This is optional	criminal
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is an action or event that might compromise the security.
((OPTION_A))  THIS IS MANDATORY OPTION	Threat
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C))  This is optional	Protect
((OPTION_D))  This is optional	attack
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is a weakness, a design problem or implementation error in a system that can lead to an unexpected and undesirable event regarding security system
((OPTION_A)) THIS IS MANDATORY OPTION	threat
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Vulnerability
((OPTION_C)) This is optional	Attack
((OPTION_D)) This is optional	Protection
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a software that operates on different OS which is used to prevent from malicious software.
((OPTION_A)) THIS IS MANDATORY OPTION	Anti virus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	virus
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	risk
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Is a technique that a hacker uses to stole data by a person for different purposes by psychological manipulation combined with social scenes.
((OPTION_A)) THIS IS MANDATORY OPTION	Social Engineering
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	IT engineering
((OPTION_C)) This is optional	Psycology
((OPTION_D)) This is optional	Social engineering
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	is a software or hardware which is used to filter network traffic based on rules.
((OPTION_A)) THIS IS MANDATORY OPTION	antivirus
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firewall
((OPTION_C)) This is optional	protocol
((OPTION_D)) This is optional	keylogger
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not Basic Functions of Antivirus Engines
((OPTION_A)) THIS IS MANDATORY OPTION	Scanning
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Integrity Checking
((OPTION_C)) This is optional	Interception
((OPTION_D)) This is optional	Evesdropping
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is name of antivirus
((OPTION_A))  THIS IS MANDATORY OPTION	AVG
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	PAN
((OPTION_C))  This is optional	SACK
((OPTION_D))  This is optional	FIREP
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Hacking tools that can be found very easily by everyone just by googling and they are endless.
((OPTION_A)) THIS IS MANDATORY OPTION	TRUE
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	FALSE
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Potential Losses due to Security Attacks doesn't involve _____
((OPTION_A)) THIS IS MANDATORY OPTION	Losing your data
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Bad usage of your computer resources
((OPTION_C)) This is optional	Reputation gain
((OPTION_D)) This is optional	Identity theft
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	C
((EXPLANATION )) This is also optional	Reputation loss is part of it and not gain

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not malware category?
((OPTION_A))  THIS IS MANDATORY OPTION	Worms
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Viruses
((OPTION_C))  This is optional	Trojans
((OPTION_D))  This is optional	None of the above
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	All are malware categories

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ encrypts all your data when your computer gets infected and the second is to roll back the data at a specific time you want.
((OPTION_A)) THIS IS MANDATORY OPTION	ransomware
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	firmware
((OPTION_C)) This is optional	middleware
((OPTION_D)) This is optional	Cyber ware
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	1
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	this network is created between two secure network devices like two firewalls.
((OPTION_A)) THIS IS MANDATORY OPTION	LAN
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	MAN
((OPTION_C)) This is optional	VPN
((OPTION_D)) This is optional	WAN
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	Virtual private network

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Name of the attack when integrity is compromised is called as _____
((OPTION_A))  THIS IS MANDATORY OPTION	Fabrication
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	interception
((OPTION_C))  This is optional	Interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack made on confidentiality is __
((OPTION_A))  THIS IS MANDATORY OPTION	interception
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C))  This is optional	interruption
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	an attack on availability such as a denial of service attack (or DOS)
((OPTION_A))  THIS IS MANDATORY OPTION	Interruption
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Interception
((OPTION_C))  This is optional	fabrication
((OPTION_D))  This is optional	modification
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	An unauthorized party inserts counterfeit objects into the system and basically attacks the authenticity of the system.
((OPTION_A)) THIS IS MANDATORY OPTION	modification
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	interruption
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Attack in which a network service is made degraded or unavailable for legitimate use
((OPTION_A)) THIS IS MANDATORY OPTION	Interruption
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	fabrication
((OPTION_C)) This is optional	interception
((OPTION_D)) This is optional	modification
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is assurance that someone cannot deny something.
((OPTION_A))  THIS IS MANDATORY OPTION	availability
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	confidentiality
((OPTION_C))  This is optional	Access control
((OPTION_D))  This is optional	Non-repudiation
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What is the purpose of a Denial of Service attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Exploit a weakness in the TCP/IP stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	To execute a Trojan on a system
((OPTION_C))  This is optional	To overload a system so it is no longer operational
((OPTION_D))  This is optional	To shutdown services by turning them off
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	DoS attacks force systems to stop responding by overloading the processing of the system

((MARKS)) QUESTION IS OF HOW MANY	2
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MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	What are some of the most common vulnerabilities that exist in a network or system?
((OPTION_A)) THIS IS MANDATORY OPTION	Changing manufacturer, or recommended, settings of a newly installed application.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Additional unused features on commercial software packages
((OPTION_C)) This is optional	Utilizing open source application code
((OPTION_D)) This is optional	Balancing security concerns with functionality and ease of use of a system.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	Linux is an open source code and considered to have greater security than the commercial Windows environment

((MARKS)) QUESTION IS OF HOW MANY	2
---	---

MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Sniffing is used to perform _____ fingerprinting
((OPTION_A))  THIS IS MANDATORY OPTION	Passive stack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active stack
((OPTION_C))  This is optional	Passive banner grabbing
((OPTION_D))  This is optional	Scanned
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	Passive stack fingerprinting uses sniffing technologies instead of scanning

((MARKS)) QUESTION IS OF HOW MANY	1
---	---

MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following is not a principle of data security?
((OPTION_A)) THIS IS MANDATORY OPTION	Data Confidentiality
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Data Integrity
((OPTION_C)) This is optional	Authentication
((OPTION_D)) This is optional	None of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY	2
---	---

MARKS? (1 OR 2 OR 3 UPTO 10)	
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following attacks is a passive attack?
((OPTION_A))  THIS IS MANDATORY OPTION	Masquerade
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Modification of message
((OPTION_C))  This is optional	Denial of service
((OPTION_D))  This is optional	Traffic analysis
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	D
((EXPLANATION )) This is also optional	In a passive attack, the attacker does not modify any part of the data. His attempt is only to obtain the information and not to modify it. From the mentioned options, this happens only in Traffic analysis in which the attacker monitors the pattern of transmission. The rest other options are examples of active attacks.

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the following options correctly defines the Brute force attack?
((OPTION_A)) THIS IS MANDATORY OPTION	Brutally forcing the user to share the useful information like pins and passwords.
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Trying every possible key to decrypt the message.
((OPTION_C)) This is optional	One entity pretends to be some other entity
((OPTION_D)) This is optional	The message or information is modified before sending it to the receiver.
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	"A key is a string of bits used by a cryptographic algorithm to transform plain text into ciphertext." Which of the following is capable of becoming a key in a cryptographic algorithm?
((OPTION_A)) THIS IS MANDATORY OPTION	Integer value
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Square matrix
((OPTION_C)) This is optional	An array of characters
((OPTION_D)) This is optional	All of the above
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	measures taken by any enterprise or organisation to secure its computer network and data using both hardware and software systems is called as
((OPTION_A)) THIS IS MANDATORY OPTION	Network security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Information security
((OPTION_C)) This is optional	Cyber security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	A
((EXPLANATION )) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	phishing and pre-texting is part of _____
((OPTION_A)) THIS IS MANDATORY OPTION	<b>NETWORK SECURITY</b>
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	<b>CYBER SECURITY</b>
((OPTION_C)) This is optional	Internet security
((OPTION_D)) This is optional	Internet security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ ensures to protect the transit data only.
((OPTION_A)) THIS IS MANDATORY OPTION	NETWORK SECURITY
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Internet security
((OPTION_C)) This is optional	Information security
((OPTION_D)) This is optional	Cyber security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is danger for <b>Integrity</b> as well as <b>availability</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ is danger for <b>Confidentiality</b> .
((OPTION_A)) THIS IS MANDATORY OPTION	Active attack
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C)) This is optional	Both
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In _____ attack attention is on detection.
((OPTION_A))  THIS IS MANDATORY OPTION	Passive attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Active Attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ attack attention is on prevention.
((OPTION_A))  THIS IS MANDATORY OPTION	Active attack
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive attack
((OPTION_C))  This is optional	Both
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Due to ___ attack system is always damaged.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	Both active and passive
((OPTION_D))  This is optional	None of these
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	due to _____ attack, there is no any harm to the system.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ attack is tough to restrict from entering systems or networks.
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	Both active and passive
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ Attack is easy to prohibited in comparison to _____ attack.
((OPTION_A))  THIS IS MANDATORY OPTION	Active,passive
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive,active
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	Which of the below is not active attack
((OPTION_A)) THIS IS MANDATORY OPTION	Denial of service (DoS)
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	replay
((OPTION_C)) This is optional	Trojans
((OPTION_D)) This is optional	traffic analysis
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	D
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION))  ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	In __ <b>attack</b> , an attacker tries to modify the content of the messages.
((OPTION_A))  THIS IS MANDATORY OPTION	Active
((OPTION_B))  THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C))  This is optional	
((OPTION_D))  This is optional	
((OPTION_E))  This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	in _____ <b>attack</b> , an attacker observes the messages, copy them and may use them for malicious purposes
((OPTION_A)) THIS IS MANDATORY OPTION	Active
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Passive
((OPTION_C)) This is optional	
((OPTION_D)) This is optional	
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ is state of being free from potential threats or dangers
((OPTION_A)) THIS IS MANDATORY OPTION	privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	freedom
((OPTION_C)) This is optional	security
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ refers to the state of being free from unwanted attention.
((OPTION_A)) THIS IS MANDATORY OPTION	Freedom
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Privacy
((OPTION_D)) This is optional	independence
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	C
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	2
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	_____ can be achieved without _____ but _____ cannot be achieved without _____.
((OPTION_A)) THIS IS MANDATORY OPTION	Security,privacy,privacy security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy,security,security,privacy
((OPTION_C)) This is optional	Security,privacy,privacy,privacy
((OPTION_D)) This is optional	Security,security,privacy,security
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	A
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program refers to a set of protocols and regulations set in place to protect all the confidential information assets and resources that an organization collects and owns.
((OPTION_A)) THIS IS MANDATORY OPTION	Privacy
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Security
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CHOICE)) Either A or B or C or D or E	B
((EXPLANATION)) This is also optional	

((MARKS)) QUESTION IS OF HOW MANY MARKS? (1 OR 2 OR 3 UPTO 10)	1
((QUESTION)) ENTER CONTENT. QTN CAN HAVE IMAGES ALSO	___ program focuses on protecting only personal information such as log in credentials, passwords, etc.
((OPTION_A)) THIS IS MANDATORY OPTION	Security
((OPTION_B)) THIS IS ALSO MANDATORY OPTION	Privacy
((OPTION_C)) This is optional	Security and privacy
((OPTION_D)) This is optional	None of these
((OPTION_E)) This is optional. If optional keep empty so that system will skip this option	
((CORRECT_CH OICE)) Either A or B or C or D or E	B
((EXPLANATION )) This is also optional	

## Question Bank for Information and Cyber Security (ICS)

### 1. Why would a hacker use a proxy server?

- A. To create a stronger connection with the target.
- B. To create a ghost server on the network.
- C. To obtain a remote access connection.
- D. To hide malicious activity on the network.

**Correct Answer – D**

**Explanation –** Proxy servers exist to act as an intermediary between the hacker and the target and services to keep the hacker anonymous to the network.

### 2. What type of symmetric key algorithm using a streaming cipher to encrypt information?

- A. RC4
- B. Blowfish
- C. SHA
- D. MD5

**Correct Answer – A**

**Explanation –** RC4 uses streaming ciphers.

### 3. Which of the following is not a factor in securing the environment against an attack on security?

- A. The education of the attacker
- B. The system configuration
- C. The network architecture
- D. The business strategy of the company
- E. The level of access provided to employees

**Correct Answer – D**

**Explanation –** All of the answers are factors supporting the exploitation or prevention of an attack. The business strategy may provide the motivation for a potential attack, but by itself will not influence the outcome.

### 4. What type of attack uses a fraudulent server with a relay address?

- A. NTLM
- B. MITM
- C. NetBIOS
- D. SMB

**Correct Answer – B**

**Explanation –** MITM (Man in the Middle) attacks create a server with a relay address. It is used in SMB relay attacks.

### 5. What port is used to connect to the Active Directory in Windows 2000?

- A. 80
- B. 445
- C. 139
- D. 389

**Correct Answer – D**

**Explanation –** The Active Directory Administration Tool used for a Windows 2000 LDAP client uses port 389 to connect to the Active Directory service.

### 6. To hide information inside a picture, what technology is used?

- A. Rootkits
- B. Bitmapping

- C. Steganography
- D. Image Rendering

**Correct Answer – C**

**Explanation** – Steganography is the right answer and can be used to hide information in pictures, music, or videos.

**7. Which phase of hacking performs actual attack on a network or system?**

- A. Reconnaissance
- B. Maintaining Access
- C. Scanning
- D. Gaining Access

**Correct Answer – D**

**Explanation** – In the process of hacking, actual attacks are performed when gaining access, or ownership, of the network or system. Reconnaissance and Scanning are information gathering steps to identify the best possible action for staging the attack. Maintaining access attempts to prolong the attack.

**8. Attempting to gain access to a network using an employee's credentials is called the mode of ethical hacking.**

- A. Local networking
- B. Social engineering
- C. Physical entry
- D. Remote networking

**Correct Answer – A**

**Explanation** – Local networking uses an employee's credentials, or access rights, to gain access to the network. Physical entry uses credentials to gain access to the physical IT infrastructure.

**9. Which Federal Code applies the consequences of hacking activities that disrupt subway transit systems?**

- A. Electronic Communications Interception of Oral Communications
- B. 18 U.S.C. § 1029
- C. Cyber Security Enhancement Act 2002
- D. 18 U.S.C. § 1030

**Correct Answer – C**

**Explanation** – The Cyber Security Enhancement Act 2002 deals with life sentences for hackers who recklessly endanger the lives of others, specifically transportation systems.

**10. Which of the following is not a typical characteristic of an ethical hacker?**

- A. Excellent knowledge of Windows.
- B. Understands the process of exploiting network vulnerabilities.
- C. Patience, persistence and perseverance.
- D. Has the highest level of security for the organization.

**Correct Answer – D**

**Explanation** – Each answer has validity as a characteristic of an ethical hacker. Though having the highest security clearance is ideal, it is not always the case in an organization.

**11. What is the proper command to perform an Nmap XMAS scan every 15seconds?**

- A. nmap -sX -sneaky
- B. nmap -sX -paranoid
- C. nmap -sX -aggressive
- D. nmap -sX -polite

**Correct Answer – A**

**Explanation** – SX is used to identify a xmas scan, while sneaky performs scans 15 seconds apart.

**12. What type of rootkit will patch, hook, or replace the version of system call in order to hide information?**

- A. Library level rootkits
- B. Kernel level rootkits
- C. System level rootkits
- D. Application level rootkits

**Correct Answer – A**

**Explanation** – Library leve rootkits is the correct answer. Kerel level focuses on replaceing specific code while application level will concentrate on modifying the behavior of the application or replacing application binaries. The type, system level, does not exist for rootkits.

**13. What is the purpose of a Denial of Service attack?**

- A. Exploit a weakness in the TCP/IP stack
- B. To execute a Trojan on a system
- C. To overload a system so it is no longer operational
- D. To shutdown services by turning them off

**Correct Answer – C**

**Explanation** – DoS attacks force systems to stop responding by overloading the processing of the system.

**14. What are some of the most common vulnerabilities that exist in a network or system?**

- A. Changing manufacturer, or recommended, settings of a newly installed application.
- B. Additional unused features on commercial software packages.
- C. Utilizing open source application code
- D. Balancing security concerns with functionality and ease of use of a system.

**Correct Answer – B**

**Explanation** – Linux is an open source code and considered to have greater security than the commercial Windows environment. Balancing security. Ease of use and functionality can open vulnerabilities that already exist. Manufacturer settings, or default settings, may provide basic protection against hacking threats, but need to change to provide advance support. The unused features of application code provide an excellent opportunity to attack and cover the attack.

**15. What is the sequence of a TCP connection?**

- A. SYN-ACK-FIN
- B. SYN-SYN ACK-ACK
- C. SYN-ACK
- D. SYN-SYN-ACK

**Correct Answer – B**

**Explanation** – A three-handed connection of TCP will start with a SYN packet followed by a SYN-ACK packet. A final ACK packet will complete the connection.

**16. What tool can be used to perform SNMP enumeration?**

- A. DNSlookup
- B. Whois
- C. Nslookup
- D. IP Network Browser

**Correct Answer – D**

**Explanation** – SNMPPUtil and IP Network Browser is SNMP enumeration tool

**17. Which ports should be blocked to prevent null session enumeration?**

- A. Ports 120 and 445
- B. Ports 135 and 136
- C. Ports 110 and 137
- D. Ports 135 and 139

**Correct Answer – D**

**Explanation** – Port 139 is the NetBIOS Session port typically can provide large amounts of information using APIs to connect to the system. Other ports that can be blocked in 135, 137,138, and 445.

**18. The first phase of hacking an IT system is compromise of which foundation of security?**

- A. Availability
- B. Confidentiality
- C. Integrity
- D. Authentication

**Correct Answer – B**

**Explanation** – Reconnaissance is about gathering confidential information, such as usernames and passwords.

**19. How is IP address spoofing detected?**

- A. Installing and configuring a IDS that can read the IP header
- B. Comparing the TTL values of the actual and spoofed addresses
- C. Implementing a firewall to the network
- D. Identify all TCP sessions that are initiated but does not complete successfully

**Correct Answer – B**

**Explanation** – IP address spoofing is detectable by comparing TTL values of the actual and spoofed IP addresses

**20. Why would a ping sweep be used?**

- A. To identify live systems
- B. To locate live systems
- C. To identify open ports
- D. To locate firewalls

**Correct Answer – A**

**Explanation** – A ping sweep is intended to identify live systems. Once an active system is found on the network, other information may be distinguished, including location. Open ports and firewalls.

**21. What are the port states determined by Nmap?**

- A. Active, inactive, standby
- B. Open, half-open, closed
- C. Open, filtered, unfiltered
- D. Active, closed, unused

**Correct Answer – C**

**Explanation** – Nmap determines that ports are open, filtered, or unfiltered.

**22. What port does Telnet use?**

- A. 22
- B. 80
- C. 20
- D. 23

**Correct Answer – D**

**Explanation** – Telnet uses port 23.

**23. Which of the following will allow footprinting to be conducted without detection?**

- A. PingSweep
- B. Traceroute
- C. War Dialers
- D. ARIN

**Correct Answer – D**

**Explanation** – ARIN is a publicly accessible database, which has information that could be valuable. Because it is public, any attempt to obtain information in the database would go undetected.

**24. Performing hacking activities with the intent on gaining visibility for an unfair situation is called \_\_\_\_\_.**

- A. Cracking
- B. Analysis
- C. Hacktivism
- D. Exploitation

**Correct Answer – C**

**Explanation** – Hacktivism is the act of malicious hacking for a cause or purpose.

**25. What is the most important activity in system hacking?**

- A. Information gathering
- B. Cracking passwords
- C. Escalating privileges
- D. Covering tracks

**Correct Answer – B**

**Explanation** – Passwords are a key component to access a system, making cracking the password the most important part of system hacking.

**26. A packet with no flags set is which type of scan?**

- A. TCP
- B. XMAS
- C. IDLE
- D. NULL

**Correct Answer – D**

**Explanation** – A NULL scan has no flags set.

**27. Sniffing is used to perform \_\_\_\_\_ fingerprinting.**

- A. Passive stack
- B. Active stack
- C. Passive banner grabbing
- D. Scanned

**Correct Answer – A**

**Explanation** – Passive stack fingerprinting uses sniffing technologies instead of scanning.

**28. Phishing is a form of \_\_\_\_\_.**

- A. Spamming
- B. Identify Theft
- C. Impersonation
- D. Scanning

**Correct Answer – C**

**Explanation** – Phishing is typically a potential attacker posing, or impersonating, a financial institution

**29. Why would HTTP Tunneling be used?**

- A. To identify proxy servers
- B. Web activity is not scanned
- C. To bypass a firewall
- D. HTTP is a easy protocol to work with

**Correct Answer – C**

**Explanation** – HTTP Tunneling is used to bypass the IDS and firewalls present on a network.

**30. Which Nmap scan is does not completely open a TCP connection?**

- A. SYN stealth scan
- B. TCP connect
- C. XMAS tree scan
- D. ACK scan

**Correct Answer – A**

**Explanation** – Also known as a “half-open scanning,” SYN stealth scan will not complete a full TCP connection.

**31. What protocol is the Active Directory database based on?**

- A. LDAP
- B. TCP
- C. SQL
- D. HTTP

**Correct Answer – A**

**Explanation** – Active4 direction in Windows 200 is based on a Lightweight Directory Access Protocol (LDAP).

**32. Services running on a system are determined by \_\_\_\_\_.**

- A. The system’s IP address.
- B. The Active Directory
- C. The system’s network name
- D. The port assigned

**Correct Answer – D**

**Explanation** – Hackers can identify services running on a system by the open ports that are found.

**33. What are the types of scanning?**

- A. Port, network, and services
- B. Network, vulnerability, and port
- C. Passive, active, and interactive
- D. Server, client, and network

**Correct Answer – B**

**Explanation** – The three types of accepted scans are port, network, and vulnerability.

**34. Enumeration is part of what phase of ethical hacking?**

- A. Reconnaissance
- B. Maintaining Access
- C. Gaining Access
- D. Scanning

**Correct Answer – C**

**Explanation** – Enumeration is a process of gaining access to the network by obtaining information on a user or system to be used during an attack.

**35. Keyloggers are a form of \_\_\_\_\_.**

- A. Spyware
- B. Shoulder surfing
- C. Trojan
- D. Social engineering

**Correct Answer – A**

**Explanation** – Keyloggers are a form of hardware or software spyware installed between the keyboard and operating system.

**36. What are hybrid attacks?**

- A. An attempt to crack passwords using words that can be found in dictionary.
- B. An attempt to crack passwords by replacing characters of a dictionary word with numbers and symbols.
- C. An attempt to crack passwords using a combination of characters, numbers, and symbols.
- D. An attempt to crack passwords by replacing characters with numbers and symbols.

**Correct Answer – B**

**Explanation** – Hybrid attacks do crack passwords that are created with replaced characters of dictionary type words.

**37. Which form of encryption does WPA use?**

- A. Shared key
- B. LEAP
- C. TKIP
- D. AES

**Correct Answer – C**

**Explanation** – TKIP is used by WPA

**38. What is the best statement for taking advantage of a weakness in the security of an IT system?**

- A. Threat
- B. Attack
- C. Exploit
- D. Vulnerability

**Correct Answer – C**

**Explanation** – A weakness in security is exploited. An attack does the exploitation. A weakness is vulnerability. A threat is a potential vulnerability.

**39. Which database is queried by Whois?**

- A. ICANN
- B. ARIN
- C. APNIC
- D. DNS

**Correct Answer – A**

**Explanation** – Who utilizes the Internet Corporation for Assigned Names and Numbers.

**40. Having individuals provide personal information to obtain a free offer provided through the Internet is considered what type of social engineering?**

- A. Web-based
- B. Human-based
- C. User-based
- D. Computer-based

**Correct Answer – D**

**Explanation** – Whether using email, a fake website, or popup to entice the user, obtaining information from an individual over the Internet is a computer-based type of social engineering

**1) You are supposed to use hill cipher for encryption technique. You are provided with the following matrix,**

$$A = \begin{bmatrix} 4 & 2 \\ 2 & 1 \end{bmatrix}$$

**Is the given matrix 'A', a valid key to be used for encryption?**

- a. Yes
- b. No
- c. Can't be determined
- d. Data insufficient

**Answer:** b) No

**Explanation:**

For choosing any square matrix as a key, it should be taken care that the matrix is invertible, i.e. its inverse must exist. Here, in this case,

$$|A| = 0$$

Therefore, it means that 'A' is not an invertible matrix. Hence matrix 'A' cannot be chosen as a key matrix for encryption in the [Hill cipher](#).

**2) The DES (Data Encryption Standard) cipher follows the fiestal structure. Which of the following properties are not shown by the fiestal structure?**

- a. The input text is divided into two parts: one being left half and another one being right half.
- b. Swapping of the left and right halves are performed after each round.
- c. The plain text is converted into a matrix form first
- d. None of the above

**Answer:** c) The plain text is converted into a matrix form first

**Explanation:**

The fiestal structure does not require the conversion of the plain text into matrix form at any of its steps.

**3) Among the following given options, chose the strongest encryption technique?**

- a. DES ( Data Encryption Standard)
- b. Double DES
- c. Triple DES
- d. AES (Advance Encryption Standard)

**Answer:** d) AES (Advance Encryption Standard)

**Explanation:**

It has been proved that the AES performs much better than the all the other DES, whether it be single DES or series of DES.

**4) What is the full-form of RSA in the RSA encryption technique?**

- a. Round Security Algorithm
- b. Rivest, Shamir, Adleman
- c. Robert, Shamir, Addie
- d. None of the above

**Answer:** b) Rivest, Shamir, Adleman

**Explanation:**

The RSA algorithm was named after the three scientists who developed this technique and the name RSA is itself the abbreviation of their names: Rivest, Shamir, and Adleman.

**5) Consider the following steps,**

- i. Substitution bytes
- ii. Shift Rows
- iii. Mix columns
- iv. Add round key

**The above steps are performed in each round of which of the following ciphers?**

- a. Rail fence cipher
- b. Data Encryption Standard (DES)
- c. Advance Encryption Standard (AES)
- d. None of the above

**Answer:** c) Advance Encryption Standard (AES)

**Explanation:**

Each round of AES includes the mentioned steps.

**1) What is the block size of plain text in SHA- 512 algorithm?**

- a. 512 bits
- b. 1024 bits
- c. 2048 bits

- d. None of the above

**Answer:** b. 1024 bits

**Explanation:**

The SHA- 512 algorithm uses blocks of plain text one at a time to encrypt them into ciphertext. The size of each block in the SHA- 512 algorithm is 1024 bits.

**2) All the below-stated processes are performed in the AES (Advanced Encryption Standard) Algorithm. Which of the following process(s) are not performed in the final round of the AES?**

- i. Substitution bytes
- ii. Shift rows
- iii. Mix columns
- iv. Add round key

**Options**

- a. i.
- b. iii.
- c. All of the mentioned
- d. None of the mentioned

**Answer:** b. iii.

**Explanation:**

In the AES algorithm, the MIX COLUMN operation is performed in all the rounds except the final round of the algorithm.

**3) What does IDEA stand for in the world of cryptography?**

**or**

**The IDEA word in the IDEA algorithm is the abbreviation for which of the following?**

- a. Independent Decryption Environment Analysis
- b. International Defense Encryption Area
- c. International Data Encryption Algorithm
- d. None of the above

**Answer:** c. International Data Encryption Algorithm

**Explanation:**

The IDEA Algorithm stands for "International Data Encryption Algorithm".

**4) How many sub-keys in the total are used by the IDEA for encrypting the plain text into ciphertext?**

- a. 64 sub- keys
- b. 48 sub- keys
- c. 52 sub- keys
- d. Only one key and no subkeys

**Answer:** c. 52 sub- keys

**Explanation:**

There are a total of 8 rounds in the IDEA technique for encryption and each of them uses 6 keys. Apart from that, 4 extra keys are used in the final round that is the output transformation round. This gives us a total of 52 subkeys.

$$(8 \times 6) + 4 = 52$$

**5) "The number of rounds in the AES algorithm depends upon the key size being used."**  
**Which among the following shows a correct relation between the size of the key used and the number of rounds performed in the AES algorithm?**

- a. 128 key size: 10 rounds
- b. 192 key size: 12 rounds
- c. 256 key size: 14 rounds
- d. All of the above

**Answer:** d. All of the above

**Explanation:**

All the mentioned options display the correct relation between the number of rounds and the key size used in the AES algorithm.

**6) Which of the following properties are the characteristic properties of a block cipher technique which differs from stream cipher?**

- a. Avalanche effect
- b. Completeness
- c. Both a. and b.
- d. None of the above

**Answer:** c. Both a. and b.

**Explanation:**

Avalanche effect and Completeness are the two characteristic properties of Block ciphers which differ them from stream ciphers.

**81. Public key encryption/decryption is not preferred because**

- a. it is slow

- b.** it is hardware/software intensive
- c.** it has a high computational load
- d.** all of the mentioned

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**Answer:** (d).all of the mentioned

- 82.** Which one of the following is not a public key distribution means?
- a.** Public-Key Certificates
  - b.** Hashing Certificates
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (b).Hashing Certificates

- 83.** What is the PGP stand for?
- a.** Permuted Gap Permission
  - b.** Permuted Great Privacy
  - c.** Pretty Good Permission
  - d.** None of the mentioned

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**Answer:** (d).None of the mentioned

- 84.** PGP makes use of which cryptographic algorithm?
- a.** DES
  - b.** AES

c. RSA

d. Rabin

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**Answer:** (c).RSA

**85.** USENET is related to which of the following Public Key distribution schemes?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (b).Public announcements

**86.** Which of the following public key distribution systems is most secure?

a. Public-Key Certificates

b. Public announcements

c. Publicly available directories

d. Public-Key authority

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**Answer:** (a).Public-Key Certificates

**87.** Which systems use a timestamp?

i) Public-Key Certificates

ii) Public announcements

iii) Publicly available directories

iv) Public-Key authority

a. i) and ii)

- b.** iii) and iv)
- c.** i) and iv)
- d.** iv) only

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**Answer:** (c).i) and iv)

- 88.** Which of these systems use timestamps as an expiration date?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 89.** Which system uses a trusted third party interface?
- a.** Public-Key Certificates
  - b.** Public announcements
  - c.** Publicly available directories
  - d.** Public-Key authority

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**Answer:** (a).Public-Key Certificates

- 90.** Publicly Available directory is more secure than which other system?
- a.** Public-Key Certificates
  - b.** Public announcements

- c. Public-Key authority
- d. None of the mentioned

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**Answer:** (b).Public announcements

1. A method used by an IDS that involves checking for a pattern to identify unauthorized activity.(*No Answer*)
  - a. **CORRECT:** Pattern Matching
  - b. Session Splicing
  - c. Protocol Decoding
  - d. State Table
2. A list or table of stored by a router (or switch) that controls access to and from a network. (*No Answer*)
  - . State Table
    - a. **CORRECT:** Access Control List (ACL)
    - b. Session Splicing
    - c. Packet Filter
3. An analysis method used by some IDS that looks for instances that are not considered normal behavior. (*No Answer*)
  - . Stateful Inspection
    - a. **CORRECT:** Anomaly Detection
    - b. Evasion
    - c. Pattern Matching
4. Bypassing a device, or performing another action, to attack or place malware on a target network without being detected. (*No Answer*)
  - . Packet Filter
    - a. State Table
    - b. **CORRECT:** Evasion
    - c. Honeypot

5. A type of firewall closely related to a packet filter that can track the status of a connection through use of a state table that keeps track of connection activities.(*No Answer*)
  - . Anomaly Detection
    - a. Protocol Decoding
    - b. **CORRECT:** Stateful Inspection
    - c. State Table
6. A tool that uses the monitoring of network traffic, detection of unauthorized access attempts, and notification of unauthorized access attempts to network administrator.(*No Answer*)
  - . Anomaly Detection
    - a. Access Control List (ACL)
    - b. **CORRECT:** Intrusion Detection System (IDS)
    - c. Session Splicing
7. A type of stateless inspection used in some routers and firewalls to limit flow of traffic to what is on the ACL.(*No Answer*)
  - . **CORRECT:** Packet Filter
    - a. Proxy Server
    - b. Evasion
    - c. State Table
8. A way of looking at raw packet data.(*No Answer*)
  - . Proxy Server
    - a. Session Splicing
    - b. **CORRECT:** Protocol Decoding
    - c. Pattern Matching
9. A server (or application) that intercepts the requests clients make of another server, fills the requests that it can, and then forwards the requests it can't handle on to the other server thus helping to improve performance and security.(*No Answer*)
  - . Honeypot
    - a. **CORRECT:** Proxy Server
    - b. Packet Filter
    - c. State Table

10. A table in which data about connection activity is kept by a stateful firewall.(*No Answer*)
- . Evasion
    - a. **CORRECT:** State Table
    - b. Honeypot
    - c. Proxy Server
11. Something set up on a separate network (or in DMZ) to attract hackers and lure them away from the real network; it logs keystrokes, provides other information about an attacker, and also provides warning that someone is trying to attack your network.(*No Answer*)
- . Proxy Server
    - a. State Table
    - b. Evasion
    - c. **CORRECT:** Honeypot
12. A way to change network address information in IP packet headers with a router by connecting multiple computers using one IP address connected to the Internet (or IP network) to convert many private addresses into one public address.(*No Answer*)
- . Access Control List (ACL)
    - a. **CORRECT:** Network Address Translation (NAT)
    - b. Anomaly Detection
    - c. Intrusion Detection System (IDS)
13. A method of avoiding detection by an IDS by sending portions of a request in different packets.(*No Answer*)
- . **CORRECT:** Session Splicing
    - a. Protocol Decoding
    - b. Pattern Matching
    - c. Evasion

1.

What are drawbacks of the host based IDS ?

- A.) Unselective logging of messages may increase the audit burdens
- B.) Selective logging runs the risk of missed attacks
- C.) They are very fast to detect

- D.) They have to be programmed for new patterns

**Show Answer**

**Answer: Option 'A'**

**Unselective logging of messages may increase the audit burdens**

2.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

3.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

4.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

5.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider

- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

6.

What are strengths of the host based IDS?

- A.) Attack verification
- B.) System specific activity
- C.) No additional hardware required
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

7.

What are characteristics of stack based IDS ?

- A.) They are integrated closely with the TCP/IP stack and watch packets
- B.) The host operating system logs in the audit information
- C.) It is programmed to interpret a certain series of packets
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They are integrated closely with the TCP/IP stack and watch packets**

8.

What are major components of intrusion detection system?

- A.) Analysis Engine
- B.) Event provider
- C.) Alert Database
- D.) All of the mentioned

**Show Answer**

**Answer: Option 'D'**

**All of the mentioned**

9.

What are characteristics of Network based IDS ?

- A.) They look for attack signatures in network traffic
- B.) Filter decides which traffic will not be discarded or passed
- C.) It is programmed to interpret a certain series of packet
- D.) It models the normal usage of network as a noise characterization

**Show Answer**

**Answer: Option 'A'**

**They look for attack signatures in network traffic**

10.

What are the different ways to classify an IDS ?

- A.) Zone based
- B.) Host & Network based
- C.) Network & Zone based
- D.) Level based

**Show Answer**

**Answer: Option 'B'**

**Host & Network based**

11.

What is major drawback of anomaly detection IDS ?

- A.) These are very slow at detection
- B.) It generates many false alarms
- C.) It doesn't detect novel attacks
- D.) None of the mentioned

**Show Answer**

**Answer: Option 'B'**

**It generates many false alarms**

1. -systematic tracking of incoming and outgoing traffic: to ascertain how an attack was carried out or how an event occurred on a network.

-intruders and network users often leave trail behind

-identify locations where relevant digital evidence exists

-crucial when developing data map of digital evidence(*No Answer*)

- a. SIM Cards
  - b. Windows Registry
  - c. **CORRECT: Network Forensics**
  - d. Drive Slack
2. -personal digital assistant: can be separated devices from mobile phones
- PDA houses a microprocessor, ROM, RAM, disk drive and various components
- most common PDA, although not referred to as such:IPAD(*No Answer*)
- . Partition
    - a. SIM Cards
    - b. EEPROM
    - c. **CORRECT: PDA's**
3. -a logical drive(*No Answer*)
- . EEPROM
    - a. PDA's
    - b. SIM Cards
    - c. **CORRECT: Partition**
4. - .EVE -> .DFT -> IOLogErrors
- .DD -> .DFT -> IOLogErrors -> MD5(*No Answer*)
- . Additional SIM Card Purposes
    - a. Types of The Formats ProDiscover Creates
    - b. **CORRECT: Files Found When Acquisition is Done (ProDiscover)**
    - c. Mobile Forensics Equipment
5. -allows you to create a representation of another computer on an existing physical computer.
- a virtual machine is just a few files on your hard drive: must allocate space to it; dynamic or static
- a virtual machine recognizes components of the physical machine its on: virtual OS is limited by the physical machines O/S and RAM. (*No Answer*)

- . Partition
  - a. **CORRECT:** Virtual Machine
  - b. Drive Slack
  - c. SIM Cards
- 6. Considerations
  - determine the scope of the investigation.
  - determine what the case requires
  - whether you should collect all info
  - what to do in case of scope creep
- \*the key is to start with a plan but remain flexible in the face of new evidence(*No Answer*)
- . **CORRECT:** Examination Plan
  - a. Drive Slack
  - b. Partition
  - c. SIM Cards
- 7. Can be exported as:
  - RTF ~good for thumbnails and book marks
  - TEXT~plain text(*No Answer*)
- . Drive Slack
  - a. Write Blockers
  - b. Windows Registry
  - c. **CORRECT:** ProDiscover Report
- 8. -UNIX DD~most common raw image format
  - .EVE~has case metadata information(*No Answer*)
- . EnCase Output Formats
  - a. Five Major Categories
  - b. ProDiscover Report
  - c. **CORRECT:** Types of The Formats ProDiscover Creates
- 9. -electronically erasable programmable read-only memory
  - how phones store system data

-enables service providers to reprogram phones without having to physically access memory chips

-OS is stored in ROM: nonvolatile memory(*No Answer*)

- . Partition
  - a. file system
  - b. **CORRECT: EEPROM**
  - c. SIM Cards

10. -file manipulation: file names and extensions/ hidden property

-disk manipulation: hidden partitions/bad clusters

-encryption: bit shifting/stenography(*No Answer*)

- . Windows Registry
  - a. Examination Plan
  - b. Virtual Machine
  - c. **CORRECT: Data-hiding Techniques**

11. -gives us a road map to data on a disk

-type of file system an OS used determines how data is stored on the disk(*No Answer*)

- . **CORRECT: file system**
  - a. Drive Slack
  - b. EEPROM
  - c. SIM Cards

12. -the main concerns with mobile devices are loss of power and synchronization with PC's or the cloud (wired or wireless).

-all mobile devices have volatile memory that may contain valuable information: making sure they don't lose power before you can retrieve RAM data is critical.

-isolated the device from incoming signals with one of the following options: shielded container (paint can, enclosures), use the Faraday Bag, use eight layers of anti-static bags, aluminum foil.

-if device is not isolated, the data of the device will continue to change while in custody of the specialist.(*No Answer*)

- . Additional SIM Card Purposes
  - a. Network Forensics
  - b. **CORRECT:** Acquisition Procedures for Mobile Devices
  - c. Challenges With Mobile Devices

13. -acquisition~preservation~collection

-validation~discrimination~culling

~examination~extraction~review

~reconstruction~analysis

~reporting~presentation~production(*No Answer*)

- . Network Forensics
  - a. **CORRECT:** Five Major Categories
  - b. SIM Cards
  - c. Write Blockers

14. -a database that stores hardware and software configuration information, network connections, user preferences, and setup information.

-can contain valuable info about current/past applications and user created information(*No Answer*)

- . SIM Cards
  - a. **CORRECT:** Windows Registry
  - b. file system
  - c. Write Blockers

15. -unused space in a cluster between the end of an active file and the end of a cluster. (Includes RAM slack and file slack)(*No Answer*)

- . SIM Cards
  - a. file system

- b. Write Blockers
- c. **CORRECT: Drive Slack**

16. -subscribers identity module cards

-found most commonly in GSM devices

-microprocessor and from 16KB to 4MB EEPROM

-GSM refers to mobile phones as "mobile station" and divides a station into two parts: the sim card and the mobile equipment and common network in global networks

-portability of information makes SIM cards versatile(*No Answer*)

- . EEPROM
  - a. PDA's
  - b. **CORRECT: SIM Cards**
  - c. Drive Slack

17. -EnCase (E01)

-RAW (DD)

-SMART (S01)

-Sleuth Kit (AFF)(*No Answer*)

- . Five Major Categories
  - a. **CORRECT: Different FTK Output Formats**
  - b. EnCase Output Formats
  - c. Network Forensics

18. -How long a piece of information lasts on a system versus data that must be collected and preserved before its lost, corrupted, or backed up.

Order:

- 1-live network devices (switches/routers)
- 2-live computers/laptops (RAM and processes)
- 3-live other devices (smartphones, PDA's)

4-Devices/computers already OFF

5-Removable media/cables-adapters/documents(*No Answer*)

. **CORRECT:** Order of Volatility

- a. Partition
- b. Drive Slack
- c. Network Forensics

19. -devices are 'live' computers; traditional "stand-alone OFF computers" approach may be inadequate

-devices are connected to 'live' wireless networks; traditional "disconnect" or "segregate" approach network forensics may be inadequate

-devices lack hardware, software and operating system standardization; many variables affect forensic and eDiscovery techniques and analysis results.

-devices are dynamic in location; communications and operability; computers are mostly static.*(No Answer)*

. **CORRECT:** Challenges With Mobile Devices

- a. Write Blockers
- b. Network Forensics
- c. Acquisition Procedures for Mobile Devices

20. -analog

-digital personal communications service (PC's)

-third-generation (3G and 4G): increased bandwidth

\*continuing to evolve*(No Answer)*

. Data-hiding Techniques

- a. **CORRECT:** Three Generations of Mobile Phone Technology
- b. Order of Volatility
- c. Challenges With Mobile Devices

21. -identifies the subscriber to the network

-stores personal information

-stores address books and messages

-stores service-related information(*No Answer*)

- . Five Major Categories
  - a. ProDiscover Report
  - b. **CORRECT:** Additional SIM Card Purposes
  - c. SIM Cards

22. -hardware utilized for protecting source/hard drive from data alteration/tampering while collecting, preserving, and reviewing CSI.

-prevents operating systems and computer programs from making "writes" to the hard drive being acquired, examined, or analyzed.

-write blockers sits between the suspect/source drive and your analysis computer. (It is usually a hardware device, but software based write blockers may be utilized.*(No Answer)*

- . file system
  - a. Drive Slack
  - b. SIM Cards
  - c. **CORRECT:** Write Blockers

23. primary Windows based:

-EnCase

-Forensic Tool Kit (FTK)

-ProDiscover

-OSForensics

primarily Linux based:

-Sleuth Kit and Autopsy

-Helix

-Knoppix STD

-SMART(*No Answer*)

- . Computer Forensic and EDiscovery Tool Needs

- a. **CORRECT:** Computer Forensic Software Tools
  - b. Network Forensics
  - c. Mobile Forensics Equipment
24. -SIM card readers: a combination hardware/software device used to access the SIM card. You need to be in a forensic lab equip with appropriate anti-static devices.

-general forensic procedure for SIM cards:

- 1-remove the back panel of device
- 2-remove the battery
- 3-remove the SIM card
- 4-insert the SIM card into the card reader
- 5-extract relevant information

-a variety of SIM card readers are on the market: some are forensically sound and some are not

-documenting messages that haven't been read yet is critical: use a video camera to capture each screen, if data cannot be extracted with forensic hardware/software

-mobile forensic tools and utilities:

- Ramsey forensic text enclosure (hardware)
- SIM card reader (hardware)
- Paraben Device Seizure (software)
- BitPim (software)
- Susteen SecureView (software)
- EnCase and FTK (software)(*No Answer*)

- . file system
  - a. Network Forensics
  - b. **CORRECT:** Mobile Forensics Equipment
  - c. Computer Forensic Software Tools

25. -EX01

-E01 (Legacy)(*No Answer*)

- . **CORRECT:** EnCase Output Formats
  - a. Different FTK Output Formats
  - b. EEPROM

c. Network Forensics

26. look for versatility, flexibility, and robustness:

- Lab OS
- File System
- Automated Features
- Venders Reputation
- Acceptance by forensic community
- documented testing and validation

-Keep in mind what application files and operating system you'd be analyzing(*No Answer*)

. **CORRECT:** Computer Forensic and EDiscovery Tool Needs

- a. Mobile Forensics Equipment
- b. Types of The Formats ProDiscover Creates
- c. Computer Forensic Software Tools