

Multiple Choice Questions Bank

1	\mathbf{A} i	n algo	rithm in encryption is called
		Α	Algorithm
		В	Procedure
		C	Cipher
		D	Module
	Ans.	_	C
2	T	he infe	ormation that gets transformed in encryption is
4	11	A	Plain text
		В	Parallel text
		_	
			Encrypted text
		D	Decrypted text
	Ans.		A
3	In	brute	e force attack, on average half of all possible keys must be tried to achieve
	su	iccess.	
		A	True
		В	False
	Ans.		A
4	A	(n)	algorithm transforms ciphertext to plaintext.
		A	Encryption
		В	Decryption
			Either (a) or (b)
		D	Neither (a) nor (b)
	Ans.		В
5	T	he	is the message after transformation.
		A	Ciphertext
		В	Plaintext
		C	Secret-text
		D	None of the above
	Ans.		\mathbf{A}
6	W	hich o	of the following is not a type of virus?
		A	Boot sector
		В	Polymorphic
		C	Multipartite
		D	Trojans
	Ans.		D



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7	A comp	uter is a malicious code which self-replicates by copying itself to other
,	progran	ns.
	A	Program
	В	Virus
	C	Application
	D	Worm
	Ans.	В
8		infects the master boot record and it is challenging and a complex task to
O		this virus.
	Α	Boot Sector Virus
	В	Polymorphic
	C	Multipartite
	D	Trojans
	Ans.	\mathbf{A}
9	·	infects the executable as well as the boot sectors.
	A	Non-resident virus
	В	Boot Sector Virus
	C	Polymorphic Virus
	D	Multipartite Virus
	Ans.	D
10	Trojan	creators do not look for
	A	Deleting Data
	В	Protecting Data
	C	Modifying Data
	D	Copying Data
	Ans.	В
11	Once ac	ctivated can enable to spy on the victim, steal their
		e information & gain backdoor access to the system.
	A	Virus, Cyber-Criminals
	В	Malware, Penetration Testers
	C	Trojans, Cyber-Criminals
	D	Virus, Penetration Testers
	Ans.	\mathbf{C}
	During	a DOS attack, the regular traffic on the target will be either
12		ng down or entirely interrupted.
	A	Network
	В	System
	C	Website



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Information and Network Security

2170709

	D	Router
	Ans.	C
13		ent of a is to overkill the targeted server's bandwidth and other
		es of the target website.
	A	Phishing attack
	В	DoS attack
		Website attack
		MiTM attack
	Ans.	В
	In	some other eximinals redirect the logitimete users to different phishing
14		some cyber-criminals redirect the legitimate users to different phishing d web pages via emails, IMs, ads and spyware.
	A	URL Redirection
	B	DOS
	C	Phishing
	D	MiTM attack
	Ans.	C
	AllS.	C
15	Trojan	creators do not look for
	A	Credit card information
	В	Confidential data
	C	Important documents
	D	Securing systems with such programs
	Ans.	D
16	When	one participant in a communication pretends to be someone else, it is called
		?
	A	Virus Attacks
	В	Fire Attacks
	C	Data Driven Attacks
	D	Masquerade
	Ans.	D
17		_ is a term used to describe a phishing attack that is specifically aimed at wealthy,
	-	II, or prominent individuals. Generally CEO's and important celebrities.
	A B	Message Authentication Code
	C C	Steganography Whole phiching
		Whale phishing
	D A mg	A cipher C
	Ans.	
18	Message	emeans that the sender and the receiver expect privacy.
	A	Confidentiality
		·



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	В	Integrity
	C	Authentication
	D	None of the above
A	Ans.	
19	Compr	ramising confidential information games under
19	Compi A	omising confidential information comes under Bug
	В	Threat
	C	Vulnerability
	Ď	Attack
A	Ans.	В
20	XX/le ore	on otto draw ganda umaalisitad aammumiaatian it is an ayawala af
20		an attacker sends unsolicited communication, it is an example of
	A	Spoofing
	В	Spamming
	C	Crackers
	D	Sniffers
A	Ans.	\mathbf{A}
21	Masqu	erading is
	A	Attempting to hack a system through backdoors to an operating system or application.
	В	Pretending to be an authorized user
	C	Always done through IP spoofing
	D	Applying a subnet mask to an internal IP range
A	Ans.	В
22	Integri	ty is protection of data from all of the following except
	A	Unauthorized changes
	В	Accidental changes
	C	Data analysis
	D	Intentional manipulation
A	Ans.	\mathbf{C}
23	A secu	rity program cannot address which of the following business goals?
	A	Accuracy of information
	В	Change control
	C	User expectations
	D	Prevention of fraud
Δ	Ans.	A
1	11131	**
24		sence of a fire-suppression system would be best characterized as
	A	Exposure
	В	Threat
	C	Vulnerability



Faculty of Degree Engineering - 083

Department of CE/IT - 07/16 **Multiple Choice Questions Bank**

	D	Risk
	Ans.	С
25	-	netric key cryptography is used for all of the following
	except	
	A	Encryption of data
	В	Access control
	C	Nonrepudiation
	D	Steganography
	Ans.	D
26	Firewa	lls are to protect against
20	A	Virus Attacks
	В	Fire Attacks
	C	Data Driven Attacks
	Ď	Unauthorized Attacks
	Ans.	D
27	The first	st computer virus is
	A	The famous
	В	HARLIE
	C	PARAM
	D	Creeper
	Ans.	D
		is the prestice and presentions taken to pretest valuable information from
28	unguth	_ is the practice and precautions taken to protect valuable information from orized access, recording, disclosure or destruction.
	A	Network Security
	В	Database Security
	C	Information Security
	D	Physical Security
	Ans.	C
29	From t	he options below, which of them is not a vulnerability to information security?
	A	Without deleting data, disposal of storage media
	В	Latest patches and updates not done
	C	Flood
	D	Unchanged default password
	Ans.	C
30	_	romising confidential information comes under
	A	Bug
	В	Threat
	C	Vulnerability
	D	Attack



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	Ans.	В
31	Possible A B C D	Ignored Protected Transferred Reduced A
	Alis.	A
32		can gain access illegally to a system if the system is not properly tested in g and gaining access phase. Security officer Malicious hacker Security auditor Network analyst B
33	text into	is the process or mechanism used for converting ordinary plain garbled non-human readable text & vice-versa.
	A B C D	Malware Analysis Exploit writing Reverse engineering Cryptography
	Ans.	D
34	When p A B C D Ans.	lain text is converted to unreadable format, it is termed as Rotten text Raw text Cipher-text Cipher C
35		is a means of storing & transmitting information in a specific format only those for whom it is planned can understand or process it. Malware Analysis Cryptography Reverse engineering Exploit writing B
36	Cryptog A B C D	graphy can be divided into types. 5 2 7 3



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	Ans.	В	
37		Data which is easily readable & understandable without any special algorithm or	
31		l is called	
	A	Cipher-text	
	В	Plain text	
	C	Raw text	
		Encrypted text	
	Ans.	В	
38	Plain to	ext are also called	
	A	Encrypted text	
	В	Clear-text	
	C	Raw text	
	D	Cipher-text	
	Ans.	C	
39	There a	are types of cryptographic techniques used in general.	
	Α	2	
	В	3	
	C	4	
	D	5	
	Ans.	В	
	Conve	ntional cryptography is also known as or symmetric-key	
40	encryp		
	A	Secret-key	
		Public key	
		Protected key	
	D	Primary key	
	Ans.	A	
41		ncryption Standard is an example of a cryptosystem.	
	A	Conventional	
	В	Public key	
	C	Hash key	
	D	Asymmetric-key	
	Ans.	A	
42		_ Cryptography deals with traditional characters, i.e., letters & digits directly.	
	A	Latest	
	В	Asymmetric	
	C	Classic	
	D	Modern	
	Ans.	С	



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A Modern B Classic C Traditional D Primitive Ans. A 44 44 45 46 46 47 A Polyalphabetic encryption code wherein each & every letter of plaintext is replaced by another letter in creating the cipher-text. A Polyalphabetic Cipher B Caesar Cipher C Playfair Cipher D Monoalphabetic Cipher Ans. B 45 45 46 47 A Rolling Cipher C Playfair Cipher D Block Cipher Ans. B 48 49 In Playfair cipher, at first, a key table is produced. That key table is a 5 by 5 grid of alphabets which operates as the key to encrypt the plaintext. A Rolling Cipher B Shift Cipher C Playfair Cipher D Block Cipher Ans. B 46 47 A Rolling Cipher D Block Cipher Ans. C employs a text string as a key that is implemented to do a series of shifts on the plain-text. A Shift Cipher C Playfair Cipher D Vigenere Cipher Ans. D 48 The	43		Cwentagraphy approtos on hinewy hit souice and strings
B Classic C Traditional D Primitive Ans. A is a mono-alphabetic encryption code wherein each & every letter of plaintext is replaced by another letter in creating the cipher-text. A Polyalphabetic Cipher B Caesar Cipher C Playfair Cipher D Monoalphabetic Cipher Ans. B 45 is the concept that tells us about the replacement of every alphabet by another alphabet and the entire series gets 'shifted' by some fixed quantity. A Rolling Cipher B Shift Cipher C Playfair Cipher D Block Cipher Ans. B 46 In Playfair cipher, at first, a key table is produced. That key table is a 5 by 5 grid of alphabets which operates as the key to encrypt the plaintext. A Rolling Cipher B Shift Cipher C Playfair Cipher D Block Cipher Ans. C 47 employs a text string as a key that is implemented to do a series of shifts on the plain-text. A Shift Cipher C Playfair Cipher B Block Cipher Ans. D 48 The has piece of the keyword that has the same length as that of the plaintext. A One-time pad B Hash functions C Vigenere Cipher	43	Δ	Cryptography operates on binary-bit series and strings.
C Traditional D Primitive Ans. A is a mono-alphabetic encryption code wherein each & every letter of plaintext is replaced by another letter in creating the cipher-text. A Polyalphabetic Cipher B Caesar Cipher C Playfair Cipher D Monoalphabetic Cipher Ans. B 45 another alphabet and the entire series gets 'shifted' by some fixed quantity. A Rolling Cipher B Shift Cipher C Playfair Cipher D Block Cipher Ans. B 46 In Playfair cipher, at first, a key table is produced. That key table is a 5 by 5 grid of alphabets which operates as the key to encrypt the plaintext. A Rolling Cipher B Shift Cipher C Playfair Cipher D Block Cipher Ans. C employs a text string as a key that is implemented to do a series of shifts on the plain-text. A Shift Cipher D Block Cipher Ans. C Temploys a text string as a key that is implemented to do a series of shifts on the plain-text. A Shift Cipher D Vigenere Cipher Ans. D The has piece of the keyword that has the same length as that of the plaintext. A One-time pad B Hash functions C Vigenere Cipher			
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A One-time pad B Hash functions C Vigenere Cipher	48		
B Hash functions C Vigenere Cipher		_	
C Vigenere Cipher			



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	D	Block Cipher
	Ans.	A
49		the plain-text is processed 1-bit at a time & a series of actions is
		out on it for generating one bit of cipher-text.
	A	Vigenere Cipher
	В	Block Cipher
	C	Stream cipher
	D	One-time pad
	Ans.	C
50	In	a sequence of actions is carried out on this block after a block of
50	plain-te	ext bits is chosen for generating a block of cipher-text bits.
	Ā	Hash functions
	В	Vigenere Cipher
	C	One-time pad
	D	Block Cipher
	Ans.	D
51	The pre	ocedure to add bits to the last block is termed as
31	A	Padding
	В	Hashing
	C	Tuning
	D	Decryption
	Ans.	A
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
52	Which	of the following is not an example of a block cipher?
	Α	DES
	В	Caesar cipher
	C	Twofish
	D	IDEA
	Ans.	\mathbf{A}
53	DES st	ands for
		Device Encryption Standard
	В	Data Encrypted Standard
	C	Data Encryption Security
	D	Data Encryption Standard
	Ans.	D
54	location	carries out all its calculations on bytes rather than using bits and is at times faster than 3-DES.
	A	Twofish
	B C	IDEA DES
		DES



Multiple Choice Questions Bank

	D	AES
	Ans.	D
55	A ES ete	ands for
33		Active Encryption Standard
	A B	▼ ▲
		Advanced Encrypted Standard
	C	Advanced Encryption Standard
	D	Advanced Encryption Security
	Ans.	C
56	AES is	at least 6-times faster than 3-DES.
	A	True
	В	False
	Ans.	\mathbf{A}
57		is another data hiding technique which can be used in conjunction with
31	cryptog	raphy for the extra-secure method of protecting data.
	A	Chorography
	В	Tomography
	C	Steganography
	D	Cryptography
	Ans.	C
58		is hiding of data within data, where we can hide images, text, and other
		es within images, videos, music or recording files.
	A	Steganography
	В	Cryptography
	C	Chorography
	D	Tomography
	Ans.	A
59	Stegano	graphy follows the concept of security through obscurity.
	A	True
	В	False
	Ans.	A
	(ID)	
60	The wor	
		d or concealed", and 'graphein' which means "writing".
	A	Tomography
	В	Chorography
	C	Steganography
	D	Cryptography
	Ans.	C



Multiple Choice Questions Bank

61	Which A B C D	of the following is not a steganography tool? Steghide ReaperExploit Image steganography Xaio steganography
	Ans.	B
62	Which	of the following is not a steganography tool?
	A	rSteg
	В	Crypture
	C	SteganographX Plus
	D	Burp Suite
	Ans.	D .
	The ma	in motive for using steganography is that hackers or other users can hide a
63		nessage behind a
	A	Program file
	В	Special file
	C	Ordinary file
	D	Encrypted file
	Ans.	C
64	_	will normally think it as a normal/regular file and your secret message will pass
	on with	out any
	B B	Cracking
	C C	Encryption Suspicion
	D	Decryption
	Ans.	C
	Alls.	
65	•	
	A	Steganography
	В	Chorography
	C	Tomography
	D	Cryptography
	Ans.	\mathbf{A}
66	Which	mode of operation has the worst "error propagation" among the following?
	A	ECB
	В	CBC
	C	CBC
	D	OFB
	Ans.	\mathbf{A}



Multiple Choice Questions Bank

67	Which	block mode limits the maximum throughput of the algorithm to the reciprocal
U/	of the t	ime for one execution?
	A	ECB
	В	CBC
	C	CTR
	D	OFB
	Ans.	C
68		mode requires the implementation of only the encryption algorithm?
	A	OFB
	В	CTR
	C	CBC
	D	ECB
	Ans.	В
69	Which	of the following modes of operation does not involve feedback?
0,	A	OFB
	В	CTR
	C	CBC
	D	ECB
	Ans.	A
	711130	1
70	Which	of the following is a natural candidates for stream ciphers?
	A	OFB
	В	ECB
	C	CBC
	D	CFB
	Ans.	\mathbf{A}

71		one of the following is not a cryptographic algorithm- JUPITER, Blowfish,
	,	Rijndael and Serpent?
	A	Rijndael
	В	Serpent
	C	Blowfish
	D	JUPITER
	Ans.	D
	Which	algorithm among- MARS, Blowfish, RC6, Rijndael and Serpent -was chosen as
72		S algorithm?
	A	Rijndael
	В	RC6
	C	Blowfish
	Ď	MARS
	Ans.	D



Multiple Choice Questions Bank

73	How m	any rounds does the AES-192 perform?		
	A	16		
	В	12		
	C	14		
	D	10		
	Ans.	B		
	1115			
74	What is the expanded key size of AES-192?			
	A	60 words		
	В	32 words		
	C	52 words		
	D	44 words		
	Ans.	C		
75	The 4×	4 byte matrices in the AES algorithm are called		
	A	Permutations		
	В	Transitions		
	C	Words		
	D	States		
	Ans.	D		
76	76 In AES the 4×4 bytes matrix key is transformed into a keys of size			
	Α	60 words		
	В	32 words		
	C	52 words		
	D	44 words		
	Ans.	D		
77	For the	e AES-128 algorithm there are similar rounds and round		
,,	is diffe	rent.		
	Α	9; the last		
	В	8; the first and last		
	C	10; no		
	D	2 pair of 5 similar rounds; every alternate		
	Ans.	A		
	711190			
78	There i	is an addition of round key before the start of the AES round algorithms.		
	A	True		
	В	False		
	Ans.	\mathbf{A}		
79		any computation rounds does the simplified AES consists of?		
	A	10		
	В	8		
	C	2		



Multiple Choice Questions Bank

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Ans. D 5 Ans. C 80 On comparing AES with DES, which of the following functions from DES does have an equivalent AES function? A Permutation P	ot
Ans. C 80 On comparing AES with DES, which of the following functions from DES does have an equivalent AES function? A Permutation P	ot
have an equivalent AES function? A Permutation P	ot
have an equivalent AES function? A Permutation P	ot
have an equivalent AES function? A Permutation P	
A Permutation P	
B Swapping of halves	
C XOR of subkey with function f	
D F function	
Ans. B	
What is the block size in the Simplified AES algorithm?	
A 36 bits	
B 16 bits	
C 40 bits	
D 8 bits	
Ans. C	
What is the key size in the S-AES algorithm?	
A 32 bits	
B 24 bits	
C 16 bits	
D None of the mentioned	
Ans. C	
Which of the following is a faulty S-AES step function?	
A Mix Columns	
B Add round key	
C Byte substitution	
D Shift rows	
Ans. C	
How many step function do Round 1 and 2 each have in S-AES?	
A 1 and 4	
B 3 and 4	
C Both 4	
D 4 and 3	
Ans. D	
The inverse transformation matrix times the forward transformation matrix eq	ıals
the identity matrix.	
A True	

В

Ans.

False



Multiple Choice Questions Bank

86	6 How many round keys are generated in the AES algorithm?		
	A	12	
	В	11	
	C	10	
	D	8	
	Ans.	В	
0=	DEG 6	11	
87		llows	
	A	SP Networks	
	В	Feistel Cipher Structure	
	C	Caesars Cipher	
	D	Hash Algorithm	
	Ans.	В	
88	The DI	ES Algorithm Cipher System consists ofrounds (iterations) each	
00	with a	round key.	
	A	16	
	В	9	
	C	12	
	D	18	
	Ans.	\mathbf{A}	
89	The DI	ES algorithm has a key length of	
0,	A	16 Bits	
	В	32 Bits	
	C	64 Bits	
	D	128 Bits	
	Ans.	C	
90	In the	DES algorithm the round key is bit and the Round Input is bits.	
	A	48, 32	
	В	·	
	C	32, 32	
		56, 24	
	D	64,32	
	Ans.	\mathbf{A}	
91	In the	DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via	
71		•	
	A	Addition of ones	
	В	Addition of zeros	
	C	Duplication of the existing bits	
	D	Scaling of the existing bits	
	Ans.	D	



Multiple Choice Questions Bank

92	The In	itial Permutation table/matrix is of size
	Α	4×8
	В	8×8
	C	12×8
	D	16×8
	Ans.	В
93	The nu	umber of unique substitution boxes in DES after the 48 bit XOR operation
),	are	•
	A	4
	В	8
	C	12
	D	16
	Ans.	В
94	What i	s the number of possible 3 x 3 affine cipher transformations?
	A	840
	В	168
	C	1344
	D	1024
	Ans.	\mathbf{c}
95	The S-	Box is used to provide confusion, as it is dependent on the unknown key.
	A	True
	В	False
	Ans.	\mathbf{A}
96	_	= 11 and q = 17 and choose e=7. Apply RSA algorithm where PT message=88
70	and the	us find the CT.
	A	64
	В	11
	C	54
	D	23
	Ans.	В
97		= 11 and q = 17 and choose e=7. Apply RSA algorithm where Cipher
<i>,</i>		ge=11 and thus find the plain text.
	A	122
	В	143
	C	111
	D	88
	Ans.	D
98		RSA system the public key of a given user is $e = 31$, $n = 3599$. What is the private this user?



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Multiple Choice Questions Bank

	A	1023
	В	2432
	C	2412
	D	3031
	Ans.	D
99	Comp	ute private key (d, p, q) given public key (e=23, n=233 ´ 241=56,153).
	A	32432
	В	19367
	C	12543
	Ď	35212
	Ans.	B
100	RSA is	s also a stream cipher like Merkel-Hellman.
	A	True
	В	False
	Ans.	A
101		RSA algorithm, we select 2 random large values 'p' and 'q'. Which of the ing is the property of 'p' and 'q'? p/q should give no remainder p and q should be prime p and q should be co-prime p and q should be divisible by $\Phi(n)$
	AIIS.	ь
102	In RS	$A, \Phi(n) = \underline{\hspace{1cm}}$ in terms of p and q.
	A	(p+1)(q+1)
	В	(p-1)(q-1)
	C	(p)(q)
	D	(p)/(q)
	Ans.	В
103		= 11 and $q = 19$ and choose e=17. Apply RSA algorithm where message=5 and
		e cipher text.
	A	C=23
	В	C=56
	C	C=92
	D	C=80
	Ans.	D
104	_	= 11 and q = 19 and choose d=17. Apply RSA algorithm where Cipher
	,	ge=80 and thus find the plain text.
	A	5
	В	12



Multiple Choice Questions Bank

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```
C
               43
         D
               54
    Ans.
               A
       Perform encryption on the following PT using RSA and find the CT. p = 3; q = 11; M
105
               18
         Α
         В
               12
         C
               26
         D
               28
               \mathbf{C}
    Ans.
       Perform encryption on the following PT using RSA and find the CT. p = 5; q = 11; M
106
               43
         Α
         В
               14
         C
               112
               54
         D
    Ans.
               В
       Perform encryption on the following PT using RSA and find the CT. p = 7; q = 11; M
107
       = 8.
         Α
               58
         В
               34
         C
               123
         D
               57
               D
    Ans.
       Perform encryption on the following PT using RSA and find the CT. p = 11; q = 13;
108
       M = 7.
         Α
               78
         В
               45
         \mathbf{C}
               124
         D
               25
               \mathbf{C}
    Ans.
       Perform encryption on the following PT using RSA and find the CT. p = 17; q = 31;
109
       M = 2.
               128
         Α
         В
               124
         C
               127
         D
               167
    Ans.
               A
```

n = 35; e = 5; C = 10. What is the plaintext (use RSA)?



Multiple Choice Questions Bank

Α	2
В	4
C	5
D	6
Ans.	C