Semester:	V
Subject :	Computer Network Security
Date of Examination:	30-08-2021
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- 1. Which is not one of the security goals?
 - a. Confidentiality
 - b. Integrity
 - c. Authentication
 - d. Availability
- 2. Ceaser Cipher is type of
 - a. Transposition Cipher
 - b. Substitution Cipher
 - c. Block Cipher
 - d. Asymmetric key ciphers
- 3. The Value of Key in Ceaser Cipher is
 - a. 4
 - b. 5
 - c. 3
 - d. 7
- 4. If the received Cipher is Z and the value of key 15, what is the plain text if Additive cipher was used?
 - a. A
 - b. D
 - c. L
 - d. K
- 5. If the received Cipher is J, what is the plain text if Cesear Cipher was used?
 - a. G
 - b. B
 - c. V
 - d. W
- 6. Playfair is a
 - a. Monoalphabetic Cipher
 - b. Polyalphabetic Cipher
 - c. Block Cipher
 - d. Asymmetric key ciphers
- 7. Vigenere is a
 - a. Monoalphabetic Cipher
 - b. Polyalphabetic Cipher
 - c. Block Cipher
 - d. Asymmetric key ciphers
- 8. Affine Cipher is a combination of
 - a. Additive and ceaser Cipher
 - b. Additive and Multiplicative Cipher
 - c. Ceaser and Multiplicative Cipher
 - d. Playfair and Vigenere Cipher



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9.	Keyed c	columnar is a type of		
	a.	Transposition Cipher		
	b.	Substitution Cipher		
	C.	Block Cipher		
	d.	Asymmetric key ciphers		
10.	D. Calculate the Cipher for Plain text = 'hello everyone' and key = 'HACK' using Keyed (column) Cipher			
	a.	eeyxhorelenxlvox		
	b.	eeyxlovxhorelenx		
	c.	eeyxlovxlenxhore		
	d.	eeyxlenxlovxhore		
11.	Which is not a type of block cipher			
	a.	Data Encryption Standard (DES)		
	b.	Double DES		
	c.	Message digest 5		
		Advanced Encryption Standard (AES)		
12.		rey cryptography is also known as		
		Transposition Cipher		
		Substitution Cipher		
	c.	Block Cipher		
	d.	Asymmetric key ciphers		
13.		S Algorithm Cipher System consists ofrounds (iterations) each with a round key		
	a.	12		
	b.	8		
	c.	15		
		16		
14.		S algorithm has a key length of		
	а.	128 Bits		
	b.	32 Bits		
	C.	64 Bits		
	d.	16 Bits		
15	_	DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure		
-5.	a.	True		
		False		
16		DES algorithm the 64 bit key input is shortened to 56 bits by ignoring every 4th bit.		
10.	a.	True		
	b.	False		
17	DES Fol			
17.	a.	Hash Algorithm		
	а. b.	Caesars Cipher		
		Feistel Cipher Structure		
		SP Networks		
10		any rounds does the AES-192 perform?		
10.				
	a.	10		
	b.	16		
	C.	14		
10	d.	14		
19.		any rounds does the AES-256 perform?		
	a.	10		
	b.	16		



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		13
	C.	12 (14)
20	d.	
20.		byte matrices in the AES algorithm are called States
	a. b.	Words
		Transitions
	c. d.	Permutation
21	_	of the following step doesn't happen in AES
21.	a.	Sub Bytes
	а. b.	Shift Rows
	C.	Initial Permutation
	d.	Mix Columns
22		Round Key step
22.	a.	State is multiplied with the key
	C.	State is divided with the key
		State is subtracted with the key
23		e of input of pain text in DES is
25.	a.	128 bits
	b.	64 bits
	c.	32 bits
	d.	
24.	The size	e of input of pain text in 3DES is
	a.	128 bits
	b.	64 bits
	c.	32 bits
	d.	160 bits
25.	The size	e of input of pain text in 2DES is
	a.	128 bits
	b.	64 bits
	c.	32 bits
	d.	160 bits
26.	RSA is n	amed after the researchers () who proposed it.
	a.	River, Shamir, Adleman
	b.	Rivest, Shamus, Adleman
	c.	Rivest, Shamir, Adleman
	d.	Rivest, Shamir, Adlemar
27.	RSA is a	
	a.	Transposition Cipher
	b.	Substitution Cipher
	c.	Block Cipher
	d.	Asymmetric key ciphers
28.	In the R	SA 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
29.	In RSA,	$\Phi(n) = \underline{\hspace{1cm}}$ in terms of p and q.
	a.	(p)/(q)

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c. 64 d. 70 38. SHA stands for?

> a. Secret Hash Algorithm b. Secure Help Area c. Secure Hash Algorithm

d. Safe Hash Area 39. The Block Chunk size used in SHA is

a. 256 bits

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	b.	(p)(q)	
	C.		
	d.	(p+1)(q+1)	
30.	. In RSA,	we select a va	lue 'e' such that it lies between 0 and $\Phi(n)$ and it is relatively prime to $\Phi(n)$.
	a.	True	
	b.	False	
31.	. For p =	11 and q = 19	and choose e=17. Apply RSA algorithm where message=5 and find the cipher text.
	a.		
	b.	92	
	c.	56	
	d.	23	
32.	. Perfor	m encryption o	on the following PT using RSA and find the CT. p = 3; q = 11; M = 5 ,e=3.
	a.	28	
	b.	26	
	c.	18	
	d.	12	
33.	. n = 35;	e = 5; C = 10. \	What is the plaintext (use RSA)
	a.	3	
	b.	7	
	c.	8	
	d.	5	
34.	. Which	is one of the a	uthentication functions
	a.	Secure Hash	Algorithm
	b.	Message Aut	chentication Code (MAC)
	c.	Message Dig	est 5
	d.	Advanced Er	cryption Algorithm
	e.		cion Standard
35.	. The tw	•	netric authentication are
	a.		
	b.		
	C.		on, recognition
	d.		on, Authorization
36.	. SHA-1	produces a has	h value of
	a.		
	b.		
	c.	180 bits	
	d.	128 bits	
37.			f round computation steps in the SHA-1 algorithm?
		80	
	b.	76	

- b. 130 bits
- c. 128 bits
- d. 512 bits
- 40. The length of padding bits in SHA is_____(Consider X = Length of message)
 - a. $\chi * 64 X$
 - b. $\chi * 512 X$
 - c. $\chi * 512 64 X$
 - d. $\chi * 512 128 X$
- 41. Size of buffer in SHA is
 - a. 128 bits
 - b. 160 bits
 - c. 256 bits
 - d. 512 bits
- 42. Which is not a property of a hash function?
 - a. Changes arbitrary length input into fixed length output.
 - b. Compresses the length
 - c. Irreversible Process
 - d. More than one message can have same Hash Code.
- 43. MD-5 produces a hash value of
 - a. 256 bits
 - b. 160 bits
 - c. 180 bits
 - d. 128 bits
- 44. What is the number of round computation steps in the MD-5 algorithm?
 - a. 80
 - b. 76
 - c. 64
 - d. 70
- 45. Size of buffer in MD-5 is
 - a. 128 bits
 - b. 160 bits
 - c. 256 bits
 - d. 512 bits
- 46. Which is false for Digital certificate
 - a. Establish relation between user and public key
 - b. Issued by trusted party
 - c. Used for achieving confidentiality
 - d. Contains username and public key
- 47. HMAC is used
 - a. Generating message authentication code
 - b. Encrypting the data
 - c. Achieving integrity
 - d. Achieving Availability
 - e. Contains username and public key
- 48. CMAC is used
 - a. Generating message authentication code
 - b. Encrypting the data
 - c. Achieving integrity
 - d. Achieving Availability



- 49. Which is not a property of a hashing
 - a. Hashing changes an arbitrary length message to a fixed length message
 - b. Hashing compresses the size of plain text
 - c. Hashing is an irreversible process
 - d. Hashing can be used for achieving confidentiality
- 50. RFID is a type of
 - a. Static Token Authentication
 - b. Dynamic Token Authentication
 - c. Password Based Authentication
 - d. Biometric Authentication

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