B.E. Eighth Semester (Computer Technology) (C.B.S.)

Cyber & Information Security

P. Pages: 2
Time: Three Hours



NKT/KS/17/7597

Max. Marks: 80

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	Note	2. 3. 4. 5. 6. 7. 8. 9.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. Due credit will be given to neatness and adequate dimensions. Assume suitable data whenever necessary. Illustrate your answers whenever necessary with the help of neat sketches.	
1.	a)	Explain	the OSI security Architecture and security attacks with example.	8
	b)	Explain	the various aspects of Information security. OR	5
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2.	a)	Explain	cryptanalysis and its types.	5
	b)	Cipher i	transposition Technique? How it is different form substitution ciphers? If the s keyed by a word "Computer" and plain text is "Please transfer one million o my account Six Six two" Obtain Cipher text by Playfair substitution method.	8
3.	a)	Write ar	algorithm for DES and analyze it.	7
	b)	What ar	e the Block Cipher modes of operation of DES. OR	6
4.	a)	Differen	tiate public keys and convention encryption	7
	b)	What ar	e the principle elements of public key cryptosystem.	6
5.	a)	Write a	short note on "Centralized key Distribution Scenario".	7
	b)	Describe	e Diffie - Hellman key exchange algorithm.	7
	20		OR	5)
6.	a)	Write R	SA algorithm. Explain its implementation an security.	9
	b)		Encryption and decryption using the RSA algorithm, for the following $= 11$, $e = 3$, $m = 9$	7

7.	a)	Give properties and requirements of Digital signatures.	6
9)	b)	What is message authentication? What is requirement which three classes grouped while functioning.	7
		OR 5	
8.	a)	Explain the various steps of Kerberos Version?	6
	b)	Explain Authentication function with neat sketch diagram and example.	7
9.	a)	What are the approaches to intrusion detection.	6
	b)	Explain various firewall design principles what are the different firewall characteristics? What are the different types of firewalls.	7
0	3	OR	
10.	a)	Explain in detail the operation of secure socket Layer.	7
	b)	Explain the following terms.	6
		i) Trap doors and cross-site scripting (XSS).	
		ii) Worm signature Extraction.	
11.	a)	Explain in detail transaction Attacks.	7
	b)	What is S/MIME? What are function it provides.	7
		OR	F
12.	(U)	Write a short note on any three.	4
		a) Types of virus.	
		b) Phishing.	
		c) PGP.	
		d) SQL injection.	
		e) Firewall	

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