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B.E. (Computer Science & Engineering) Eighth Semester (C.B.S.)

Information & Cyber Security

P. Pages: 2 NIR/KW/18/3691 Time: Three Hours Max. Marks: 80 Notes: 1. All questions carry marks as indicated. 2. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. 3. 4. Solve Question 5 OR Questions No. 6. 5. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. 6. Solve Question 11 OR Questions No. 12. 7. Explain different issues of information security in brief. 1. a) Explain different security services with example. b) OR 7 Draw and explain internetwork security model. a) b) Encrypt following statement using railfence technique and 3 i) ii) 2-Columnar technique "Hardwork makes a man perfect". 3. Explain centralized key distribution technique. a) Explain DES algorithm in brief. b) OR Explain Different block cipher modes of operation in detail. 4. a) Explain IDEA algorithm. 5 b) 5. Write R.S.A. Algorithm. Also perform encryption and decryption using RSA for a) following values P = 5, q = 11, e = 3 & M = 9. Write diffie-Hellman key exchange algorithm. 5 b) OR What are the different key generation techniques? Explain any one in brief. 6. a) b) Explain elliptic curve cryptography.

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7.	a)	What is Hash function? Explain MD-5	algorithm.	7
a (b)	What are the different type of digital ce	rtificates?	6
	6		OR ()	7
8.	a)	Explain Kerberos version-4 with its dialogue in detail. 8 Explain PKI architecture in brief		8
	b)	Explain PKI architecture in brief.	7 (0) (2)	5
9.	a)	Draw SSL stack and explain Handshake protocol in brief.		7
	b)	Explain transport layer security.		6
		OR		
10.	a)	Draw and explain IPSEC model.		7
24	b)	Differentiate between Tunnel and transp	port mode of security.	6
11.	a)	Write a note on	M-1/2 1	13
		i) Phishing	ii) Cross site scripting	
		iii) SQL injection	iv) Buffer overflow	
			OR	
12.	a)	Explain in detail pretty good privacy.		7
	b)	What is secure electronic transaction? How does it work?		
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All our dreams can come true if we have the courage to pursue them.

~ Walt Disney

