http://www.rtmnuonline.com B.E. (Computer Science & Engineering) Eighth Semester (C.B.S.) Information & Cyber Security

P. Pa	ages:	2		NJR/KS/18/4747
Time	: Thi	ree Hours	S * 0 6 2 0 *	Max. Marks: 80
Λ	Notes	5: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	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 ske	etches.
í.\\	a)		cryptography in network security. What do you understand by service cks related to the cryptography with an example.	, mechanism 8
	b)		e conventional encryption model. What are the requirements for securional encryption?	re use of 6
•		***	OR	
2.	a)	Write a	short note on polyalphabetic ciphers with an example.	6
	b)	(0, 1)	the message "Money helps to build infrastructure" using Hill cipher v Show your calculations and result.	with the key 8
3. (a)	Write a	short note on-strength of DES.	6
	b)	Explain	centralized and decentralized key distribution in brief.	7
			OR	77
4.	a)	Briefly 1	Explain cipher block chaining mode of operation.	7
	b)	Describe	e key generation of AES algorithm.	6
5.	a)	How do example	es asymmetric key encryption ensure "Non-repudiation"? Explain wit	h an 7
	b)	What is	the role of key distribution center? What are it's drawbacks.	6
			OR	
6.	a)	Explain e = 7; M	RSA algorithm in details. Perform encryption and decryption $p = 17$;	q = 11; 8
	b)		about man in middle Attack.	() (5

P.T.O NJR/KS/18/4747

7.	a)	Describe Diffie-Hellman key exchange Algorithm with suitable example. What are the weakness of the Algorithm explain.
0),	b)	Write a short note on Hash function? Give the basic uses of hash function.
		OR
8.	a)	Explain public key infrastructure architecture and its function. 6
	b)	Explain the digital signature requirements and direct digital signature in detail. 7
9.	a)	Explain the SSL protocol stack in detail. 6
	b)	Explain the transport layer security in detail. 7
		OR
10.	a)	What do you mean by "Trusted Systems", "Intrusion Detection system" & "Intrusion 8
) []	\	Prevention system".
5	b)	Explain Applications and advantages of IP Sec. 5
11.	a)	How Chipcard transaction is perform? Explain in detail.
	b)	Describe SQL Injection in detail. 6
		OR
12.	a)	Write a short note on any two. 14
		a) S MIME
		b) E-transaction attack.
		c) Buffer Overflow

		000
	20	
	6	

021