11. (a) Discuss about SSL Record Protocol in detail. NTK/KW/15/7585 6 **Faculty of Engineering & Technology** (b) Write about Web Security Requirements. 3 Seventh Semester B.E. (Infor. Tech.) (C.B.S.) Write a short note on SET Protocol. 4 **Examination COMPUTER SYSTEM SECURITY** OR 12. Write short notes on (Solve any three): Time—Three Hours] [Maximum Marks—80 Firewall design principles MMM. SOLVEOLING INSTRUCTIONS TO CANDIDATES Viruses and Worms All questions carry marks as indicated. Trusted System Solve Question No. 1 OR Question No. 2. SNMP. Solve Question No. 3 OR Question No. 4. (3) (4) Solve Question No. 5 OR Question No. 6. Solve Question No. 7 OR Question No. 8. (5) Solve Question No. 9 OR Question No. 10. (6) Solve Question No. 11 OR Question No. 12. (7) Due credit will be given to neatness and adequate (8) dimensions. Assume suitable data wherever necessary. Illustrate your answers wherever necessary with the help of neat sketches.

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Explain Active and Passive Attacks in detail. 1. (b) Explain S-DES Encryption and Decryption with an example. 6 OR Explain Play-fair substitution technique, convert the 2. following text to cipher text using "MONARCHY" as a keyword. "It was disclosed yesterday". 5 (b) Explain substitute bytes, MFX Column and Add round key stages in AES Encryption process with neat diagram. 8 Explain IDEA Cipher in detail with neat diagram. (b) Write characteristics of advanced symmetric block ciphers. OR Explain subkey, S-Box generation and round structure 4. of Blow fish-with neat diagram. (b) Write about ANSI X9.17 Pseudo random number generator. (c) Explain differential and linear cryptanalysis. 4 Explain RSA algorithm. Perform Encryption and 5.

(b)	Explain	different	schemes	for	distribution	of	public
	keys.						5

		OR	
6.	(a)	Explain cryptography with Elliptic curves	. 6
	(b)	Draw and explain MD-5 Hash algorithm	in detail.
7.	(a)	Describe SHA-1 with neat sketches.	8
	(b)	Explain Digital Signature Standard.	5
	7	OR	
8.	(a)	Explain the difference between version 4 and version 5.	kerberos 4
	(b)	What is the purpose of X.509 authentication Describe the format of X.509 certificate and revocation.	
9.	(a)	Explain PGP in detail.	8

## OR

modes.

(b) Discuss about ESP header of IPSec in both the

6

10.	(a)	Explain S/MIME functions in detail.	6
	(b)	Explain ISAKMP in detail.	8

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