AR - 651

Fifth Semester B. C. A. (Part – III) Examination

NETWORK SECURITY

Paper - 5 ST 2

P. Pages: 3

Time: Three Hours]

[Max. Marks: 60

Note: (1) All questions are compulsory.

- (2) All questions carry equal marks.
- 1. (a) What is active and passive attacks? Explain with its security threats.
 - (b) Explain transposition techniques in detail. 6

OR

2. (a) Explain substitution cipher and transposition cipher and write difference between them.

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- 3. (a) Explain Advanced Encryption Standard AES cipher. 6
 - (b) Discuss the operation of Data Encryption Standard. (DES)

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4.	(a)	Explain strength of Data Encryption Standard (DES). 6
	(b)	Explain the Cipher Block Chaining Mode. 6
5.	(a)	Explain the Fermat's theorem. 6
	(b)	Describe the divisibility and the division algorithm. 6
		OR
6.	(a)	Discuss Moduler Arithmetic Operation. 6
	(b)	Explain testing for primarility. 6
7.	(a)	Explain one way hash function. 6
	(b)	What is Digital signature ? Explain. 6
		OR
8.	(a)	Differentiate between conventional and public key encryption.
	(b)	What is role of Kerberos during secure communication? Explain.

-	(a)	Explain following:—
		(1) Intruders
		(2) Viruses
		(3) Firewalls.
	(b)	Explain pretty good privacy in E-mail security.
		OR
0.	(a)	Explain various services provided by IP security. 6
	(b)	Compare between PGP and S/MIME. 6
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