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BT-7/M-21

CRYPTOGRAPHY AND INFORMATION SECURITY

Paper-CSE-419N

Time Allowed : 3 Hours]

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. All questions carry equal marks.

UNIT-I

- (a) What are Security attacks ? Discuss concept of Attacks and Threats.
 (b) Explain Classical Cryptography.
- 2. (a) Explain Shannon's theorem.
 - (b) What is the concept of Cipher ? Write the types of Cipher.

UNIT-II

- 3. (a) What is the concept of Discretionary and Mandatory Access Control?
 - (b) Discuss 3-DES.
- 4. (a) Explain RSA modes of Operation.
 - (b) Define Tiger and Gear Hashing.

UNIT-III

- 5. Explain key exchange using Diffie-Hellman algorithm.
- 6. (a) Explain Key Exchange protocols.
 - (b) Explain Public Key Crypto system with reference to Kerberos, SSL and IPSEC.

UNIT-IV

- 7. (a) What is Digital Signature ? Discuss the concept of SHA1 and Rabin Finger Print.PERWorld
 - (b) Explain Firewall and Intrusion Detection system.
- 8. Write notes on the following :
 - (a) MD-5 algorithm.
 - (b) Secure Military Computation.

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[Maximum Marks : 75