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BT-6 / M-17

NETWORK MANAGEMENT AND SECURITY

Paper–CSE-306

Time allowed : 3 hours]   [Maximum marks : 100

Note : *Attempt any five questions, selecting at least one from each unit. All questions carry equal marks.*

Unit–I

1. (a) What are the key principles of security ? Explain.   10
   (b) Explain various substitution techniques in detail.   10

2. What do you mean by cryptography ? What is the difference between symmetric and asymmetric key cryptography ? Also explain DES algorithm with example.   20

Unit–II

3. Explain various memory and address protection mechanisms in operating system.   20

4. Explain any two models of access control.   20

Unit–III

5. What do you mean by viruses, worms and Trojan horses ? How it works and also discuss its defensive measures.   20

6. Discuss any *two* :   20
   (a) SSL
   (b) PKI
   (c) PGP

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Unit–IV

7. (a) What do you mean by firewall ? Explain in detail.   10
   (b) Explain Intrusion detection system in detail.   10

8. Write short notes on :   20
   (a) Denial of Service
   (b) Protocol vulnerabilities in TCP/IP

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