

**MASTER OF BUSINESS ADMINISTRATION
(MBACT)**

Term-End Examination

December, 2011

MCTE-021 : NETWORK SECURITY

Time : 3 hours

Maximum Marks : 100

Note : Answer any five questions.

All questions carry equal marks.

1. Classify and explain the security threats in a computer networks. 20

2. (a) What is a firewall and what are its limitations ? How its limitations can be handled by Network Administrator ? 10
(b) How does PGP provide confidentiality and authentication service for email and storage applications ? Explain. 10

3. (a) What is Denial of service attack ? Explain the security solutions against it. 10
(b) Explain Secure Socket Layer (SSL) protocol stack. Also, define the parameters used session and connection states. 10

4. (a) Explain the working of Digital Signature Standard (DSS) algorithm. 10
- (b) Explain the routing attacks and its possible solutions. 10
5. (a) What is a significance of IP filtering ? Explain its process of filtering using an example. 10
- (b) Explain the security attacks occur at data link layer and physical layer of a network. 10
6. (a) Describe the process of tunneling for providing secure data transmission in an insecure network. 10
- (b) Explain the working of distributed Intrusion Detection System. 10
7. Write short note on the following. 5x4=20
- (a) Proxy Firewall
- (b) Permanent servers
- (c) RSA algorithm
- (d) Kerberos
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