

Exam. Code : 208604

Subject Code: 8397

M.Sc. Information Technology Semester-IV

NETWORK SECURITY

Paper-MIT-402

Time Allowed—3 Hours]

[Max. Marks—100

Note :— Attempt any FIVE questions. All questions carry equal marks. The students can only non-programmable and non-storage type calculator.

1. What do you mean by Network Perimeter Security ? What are the various components of Network perimeter security ? Discuss any two in brief. 20
2. (a) Explain the role, working and the procedure to configure CISCO ACL. 10
(b) How a stateful firewall works ? 10
3. What do you mean by Packet Filtering ? What are the merits and demerits of packet filtering ? What are the various types of packet filtering ? Discuss in detail. 20
4. What do you mean by Proxy Firewall ? Discuss in detail the working of proxy firewall. What are the pros and cons of proxy firewall ? 20

5. Discuss the following in detail :
 - (a) Security policy 10
 - (b) Using an IDS management network. 10
6. What is Stateful Firewall ? How does it work ? Explain the purpose and working of stateful filtering and stateful inspection. 20
7. Discuss the following in detail :
 - (a) Host Hardening 10
 - (b) Host Defenses. 10
8. What is the purpose of Separation Resources ? Explain the security zones and a VLAN based separation. 20