

7. What is an Intrusion Prevention System ? Discuss its limitations. Explain the main functions of a Network IPS.
8. Explain the design requirements and design elements for security .

Exam. Code : 208604
Subject Code : 4841

M.Sc. Information Technology 4th Semester
NETWORK SECURITY
Paper: MIT-402

Time Allowed—2 Hours] [Maximum Marks—100

Note :— There are **eight** questions of equal marks. Candidates are required to attempt any **four** questions.

1. What is the meaning of the term "defence in depth" ?
How is it realized in computer networks ?
2. Write short notes on:
 - (a) TCP's three way handshake
 - (b) CISCO router as a packet filter.
3. Explain the concept of state in the context of a firewall?
How does a stateful firewall work ?
4. What is a proxy firewall ? What are its various types ?
Explain the pros and cons of proxy firewalls.
5. How is a host machine protected from malicious programs?
6. What is a security policy ? How is it developed and implemented ?