

M.Sc. (IT) 1st Semester

NETWORK OPERATING SYSTEMS

Paper—MIT-104

Time Allowed—Three Hours] [Maximum Marks—100

Note :— Attempt any FIVE questions. All questions carry equal marks.

1. (a) Explain the Win-NT Service and Security Architecture. List down various network operating systems.
(b) How clustering and Load balancing is performed in network operating system ? Also discuss various storage management strategies used for network operating system.
2. (a) Explain the steps for performance tuning of Windows NT server network. Why task management and system monitoring is performed ?
(b) Explain various tools and techniques of network administration. Differentiate FTP and TELNET.
3. (a) Explain different kinds of file systems used in network operating system. Also discuss the concept of shell and kernel.
(b) What are the role and responsibilities of network administration ? Discuss in detail.

4. (a) How are backups maintained by Win-NT server ? Explain the concept of disk fragmentation and remote storage.
(b) What kind of licensing is required by Win-NT server and clients ? Why it is required ?
5. (a) What do you mean by distributed operating system ? Explain the difference between distributed and networked operating system if any.
(b) What is the use of MySQL ? Discuss a case and comparative study of MySQL.
6. (a) What is a network protocol ? Explain the network model used by Win-NT.
(b) Explain how groups and users are managed in Win-NT. What is the need of troubleshooting in accounts ? How to perform accounts troubleshooting ?
7. Discuss various networking and communication features of NOS. What is the difference between synchronies communication and asynchronies communication ?
8. Write short notes on :—
 - (a) RAID and mirroring
 - (b) IIS
 - (c) Managing DHCP
 - (d) Auditing Security Events.