

Exam. Code : 208601

Subject Code : 4707

M.Sc. Information Technology 1st Semester

NETWORK OPERATING SYSTEMS

Paper-MIT-104

Time Allowed—3 Hours]

[Maximum Marks—100

Note :— Attempt **five** questions, selecting at least **one** question each from Parts A, B, C and D. The **fifth** question may be attempted from any Part. All questions carry equal marks.

PART-A

1. (a) What kind of Licencing is required by Win-NT server and Clients ? Why it is required ? 10
(b) Explain the following :
 - (i) MySQL
 - (ii) Active Directory
 - (iii) Clustering
 - (iv) Load Balancing. 10
2. What do you understand by Kernel & Shell ? Discuss the Windows 2003 architecture mentioning the role of kernel and shell. 20

PART-B

3. (a) What is the difference between Basic and Dynamic Disk*? How can you convert a basic disk into dynamic disk ? 10

- (b) Write short notes on :
- (i) RAID and mirroring
 - (ii) IIS
 - (iii) Managing DHCP
 - (iv) Disk Fragmentation. 10
4. Explain the following in context to DNS Servers :
- (i) Forward & Reverse Lookup Zones. 5
 - (ii) Recursive and Forwarding Only Queries. 5
 - (iii) SOA, CNAME, NS, MX, A Records. 10

PART-C

5. (a) Explain the significance of users and groups in operating system. How groups help in easing the system administration ? 10
- (b) What is role of task manager in Windows OS ? Explain in detail. 10
6. Explain the steps for performance tuning of Windows NT server network. Why task management and system monitoring is performed ? 20

PART-D

7. (a) What is a Network protocol ? Explain the network model used by Win-NT. 10
- (b) What is the use MySQL ? Discuss a case and comparative study of MySQL. 10
8. Write short notes on the following :
- (a) Auditing Security Events. 5
 - (b) Windows 2003 Network Operating System. 5
 - (c) Monitoring Memory. 5
 - (d) FTP.. 5