

**MASTER OF COMPUTER  
APPLICATIONS (REVISED)/  
BACHELOR OF COMPUTER  
APPLICATIONS (REVISED)  
(MCA/BCA)**

**Term-End Examination**

**June, 2025**

**MCS-022 : OPERATING SYSTEM CONCEPTS  
AND NETWORKING MANAGEMENT**

*Time : 3 Hours*

*Maximum Marks : 100*

*Weightage : 75%*

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**Note :** *Question No. 1 is compulsory. Attempt  
any **three** questions from the rest.*

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1. (a) What is Distributed Operating System ?  
How is it different from Network  
Operating System ? 6

- (b) What is Virtual Memory ? Explain its advantages. 5
  - (c) Briefly explain Windows 2000 server's services. 5
  - (d) Explain Windows 2000 registry management. 5
  - (e) Explain functionality of Graphical User Interface (GUI). 5
  - (f) What is NEXT Computer ? Explain NEXT user interface. 5
  - (g) Explain how you can set date in Linux.  
Can any user set date in Linux ?  
Explain. 4
  - (h) What is TCP/IP ? List its advantages. 5
2. (a) In Windows 2000, what is Domain User Account and Local User Account ? Also, explain how to add members to a group in Windows 2000. 10

- (b) What is Domain Name Server (DNS) ?  
What are its advantages ? Write step-by-step procedure to configure DNS in Linux operating system. 10
3. (a) What is Windows 2000 remote access ?  
Write the purpose of VPN. Briefly explain protocols used by Windows 2000 for VPN. 10
- (b) What is Network Topology ? Explain the working of any *two* network topologies. 10
4. (a) What is the need of security in operating system ? Explain various security features of Windows 2000 operating system. 10
- (b) Explain main responsibilities of Linux system administrator. Also, explain how user's accounts are managed in Linux. 10

5. Write short notes on the following :  $4 \times 5 = 20$

- (a) Memory management in Linux
- (b) FAT-16 and FAT-32
- (c) Optical fiber
- (d) Firewall

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