

No. of Printed Pages : 4

**MCS-022**

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

**Term-End Examination  
December, 2024**

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

*Time : 3 Hours*

*Maximum Marks : 100*

*Weightage : 75%*

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**Note :** (i) *Question No. 1 is compulsory.*

(ii) *Attempt any **three** questions from the  
rest.*

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1. (a) What is the basic philosophy of X-windows ? How is it different from the rest of GUIs ? 5

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- (b) What is an operating system ? Briefly explain multiprogramming operating system. 8
- (c) Explain any *three* features of Linux. 6
- (d) What is home directory in Linux system ? Explain with the help of an example. 4
- (e) What is peer-to-peer network ? Is Windows 2000 suitable for peer-to-peer network ? Explain. 5
- (f) Briefly explain services of Windows 2000 server. 6
- (g) Explain goals of computer security. 6
2. (a) What is security breach in computer system ? Classify various types of security breach and explain. 10

- (b) What is EFS service ? Describe the concept of encryption using EFS services. 5
- (c) Briefly explain functionality of Graphical User Interface (GUI). 5
3. (a) Explain spooling with the help of a example. 5
- (b) Explain real-time operating system and its applications. 5
- (c) What is Network topology ? Explain Mesh topology and its advantages. 10
4. (a) What is modem ? Explain any *four* types of modem. Also, explain any *four* features of modems. 10
- (b) What is Domain Name System (DNS) ? Explain DNS design goals and DNS design principles. 10

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

- (a) File Transfer Protocol
- (b) Users administration in Windows 2000
- (c) Cryptography
- (d) IPSec framework

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