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MCS-022

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

Term-End Examination

December, 2021

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

Time : 3 Hours

Maximum Marks : 100

Weightage : 75%

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

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

1. (a) Compare and contrast the Distributed operating system with the Network operating system. Give an example of each. 5
- (b) What is an X-window system ? Discuss the X-window library and X-toolkit. 5
- (c) What is a Multiprocessor Operating System ? Discuss the characteristics of multiprocessor operating system. 5
- (d) Distinguish between relative and absolute pathnames, using an examples for each in Linux. 5
- (e) Explain the features of user mode and kernel mode of Windows 2000 operating system. 5

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- (f) Discuss the role of “Backup Domain Controller” in Windows 2000 operating system. Support your discussion with suitable block diagram. 5
- (g) What is EFS service ? Describe the concept of encryption using EFS service. 5
- (h) Compare TFTP and FTP. Which protocol is used by TFTP at the transport layer and why ? 5
2. (a) Discuss the working of Token ring and Token bus. Give suitable example and supporting diagram for each. 10
- (b) In the context of Windows 2000, define Trust Relationship. Discuss the role of Kerberos and Domain Controller in maintaining the Trust relationship. 10
3. (a) What is the Domain Name Server (DNS) ? Briefly discuss the utility of DNS. Write step-by-step procedure to configure DNS in Linux operating system. 10
- (b) List and describe the various security features in Windows 2000 operating system. 10
4. (a) What is Virtual Memory ? Explain the abstract model of virtual to physical address mapping with reference to Linux operating system. 10
- (b) Explain the following with reference to file organization of Windows 2000 operating system : 10
- (i) NTFS
 - (ii) FAT 16
 - (iii) FAT 32
 - (iv) File Replication Service

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

- (a) RAID levels
- (b) TCP/IP model
- (c) Virtual private network
- (d) SNMP architecture

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