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MCS-022

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

Term-End Examination

June, 2024

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

Time : 3 Hours

Maximum Marks : 100

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

1. (a) Explain the various user authentication methods in computer system. 10
- (b) List the important components of Domain Name Server. 4
- (c) How do you configure DNS in Linux ? Explain its steps. 6

P. T. O.

- (d) What do you mean by Operating System ?
Explain the features and components of OS. 10
 - (e) Explain all the OSI layers in a Computer Network. 7
 - (f) Differentiate between Router and Bridges. 3
2. (a) Explain the process to use the mapped drive in Windows 2000. 5
- (b) Describe domains, workgroups and trusted relationship in terms of Windows 2000. 5
- (c) Discuss various components of Linux operating system. 10
3. (a) Write the use of the following commands : 10×1=10
- (i) `cmp`
 - (ii) `tail`
 - (iii) `chmod`
 - (iv) `grep`

(v) PWD

(vi) Kill

(vii) PS

(viii) WC

(ix) Tree

(x) head

(b) What is a Virtual Private Network ?

Explain the security aspects of VPN. 2+5

(c) Write necessary steps to create a VPN. 3

4. (a) What is Kerberos ? Explain the complete process of client authentication using Kerberos. 2+8

(b) When is a system called as Fault Tolerant ? Explain various systems/ techniques for making a system Fault Tolerant. 10

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

- (i) Firewall
- (ii) IP Addressing
- (iii) Intrusion Detection
- (iv) Remote Login
- (v) Proxy Server