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MCS-022

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

Term-End Examination

June, 2023

**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) Define WINDOWS NT Registry. What does it consist of ? Discuss how you can secure the Registry and audit its critical components. 10

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- (b) Define a firewall. What are its functions ?
List its limitations. 6
- (c) In context to RAID, explain Mirroring,
Duplexing and Striping with parity. 9
- (d) Discuss the file system in Windows-XP and
also explain how the office file features in
Windows-XP are enabled ? 8
- (e) Discuss the absolute and relative
pathnames in LINUX with the help of
suitable examples for each. 7
2. (a) Describe the file and directory systems of
LINUX with suitable examples. 7
- (b) Describe various file permission modes in
LINUX and associated commands for
granting/revoking file permissions. 8

- (c) Explain the purpose of the following commands in LINUX with an example for each : 5
- (i) cp
 - (ii) mv
3. (a) Differentiate the role and responsibilities of “user mode” and “kernel mode” of Windows-2000 system. 8
- (b) What is Kerberos ? Explain the complete process of client authentication through Kerberos. 7
- (c) What is a Virtual Private Network (VPN) ? Describe the step by step procedure to configure VPN in Windows-XP. 5
4. (a) Differentiate LAN, MAN and WAN in context of its geographical distribution, size, access mechanism, hardware devices and communication. 10

- (b) Discuss the following briefly w.r.t.
Windows-2000 : 10
- (i) NTFS (New Technology File System)
 - (ii) EFS Services (Encrypting File System)
5. Write short notes on the following : 4×5=20
- (a) Gateways Network device
 - (b) Backup and restoration in LINUX
 - (c) Distributed operating system
 - (d) Managing user profiles in Windows-2000.