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 Sysem)

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.