BACHELOR OF COMPUTER APPLICATIONS / MASTER OF COMPUTER APPLICATIONS

(REVISED) (BCA/MCA)

Term-End Examination
December, 2023

MCS-022: OPERATING SYSTEM CONCEPTS AND NETWORKING MANAGEMENT

Time: 3 Hours

Maximum Marks: 100

Weightage: 75%

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

1. (a) Write the Linux/Unix commands for:

 $2 \times 5 = 10$

- (i) List all hidden files in a directory.
- (ii) List all process currently running on the system.

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- (iii) Set permission to a file, say "sample.txt" so that the file can be read by owner only.
- (iv) Print last 10 lines of a file.
- (v) Show all user, currently logged on.
- (b) Why do we need a firewall? Explain the working of firewall in detail. Also, explain the limitations of using firewall. 2+5+3
- (c) Differentiate between FAT32 and FAT16 file systems Explain the features of NTFS in context of Windows 2000 OS. 3+7
- (d) What is X-Windows? Explain the major components of Unix-based GUI's in X-Windows.
- 2. (a) What do you mean by Packet Switching?Explain the Datagram and Virtual Circuit approach of packet switching.6
 - (b) Explain POP3 and IMAP Protocols. 4
 - (c) What are Guided and Unguided Media?

 Explain optical fibre. List the advantages and disadvantages of unguided media. 5+5

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3.	(a)	Define Topology in context of Computer
		Network. List the advantages of Computer
		Network. 6
	(b)	Explain the working of Ring Topology. 4
	(c)	Explain the process of ApacheServer
		setting in Linux in detail.
4.	(a)	Explain the different user authentication
		methods. Differentiate symmetric and
		asymmetric cryptography. 6+4
	(b)	Explain Computer-Security
		Classification in detail. 10
5.	Wri	te short notes on the following : $5\times4=20$
	(a)	Serial Processing
	(b)	System calls
	(c)	Virtual Machines
	(d)	Wide Area Network
	(e)	Virtual Private Network.

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