M.C.A. (REVISED)/B. C. A. (REVISED)

Term-End Examination June, 2022

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) Explain the output of the following Linux/Unix commands: 5
 - (i) date who
 - (ii) diff abc.txt xyz.txt
 - (iii) man who
 - (iv) ls-a
 - (v) pwd

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with the help of a suitable diagram.

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2.	(a)	Write Linux shell script that will convert all numeric digits present in a text file into
		"*". The path of the text file would be given
		by the user. Support your code with
		suitable comments for better readability
		10
	(b)	Compare multiprogramming and
		multitasking. Give suitable example for
		each. 10
3.	(a)	List and explain various network
		topologies. Write one advantage and
		disadvantage of each. 10
	(b)	With reference to security system and
		facilities, explain the following: 10
		(i) System Access Control

(a) Discuss the functionality of user and kernel modes of Windows 2000 operating system.

(ii) Data backup and off-site retention

- (b) Explain the process and thread managementin Linux Operating System.
- 5. Write short notes on the following: $4 \times 5 = 20$
 - (a) Microkernel Architecture
 - (b) Data Backup Strategies
 - (c) Auditing in Windows 2000
 - (d) Group policy in Windows 2000
 - (e) Active directory in Windows 2000