MCA (Revised) / BCA (Revised)

Term-End Examination December, 2022

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.

- (a) Discuss Pipes, Filters and Redirection commands in LINUX, along with suitable examples and explanation.
 - (b) Elucidate the following with reference to Windows XP Networking: 10
 - (i) TCP/IP Protocol settings
 - (ii) VPN and Remote Networking facilities

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	(c)	In context to computer security, explain the following:	6
		(i) Integrity	
		(ii) Confidentiality	C)
		(iii) Availability	% .
	(d)	Define authentication tokens. With reference to authentication tokens, explain	•
		the use of Hardware okens and Software	0
		tokens.	6
	(e)	Discuss Trivial File Transfer Protocol (TFTP) and TELNET.	8
2.	(a)	Explain the features of Network Operating System and Distributed Operating System.	10
	(b)	Define Domain Name System (DNS). In context to DNS, explain DNS Architecture and DNS Zones.	10
3.	(a)	Discuss process and thread management in LINUX.	10
	(b)	Discuss the file system, special files and file	
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- Discuss the following (giving an example for (a) 4. each) with reference to shell scripting in LINUX: *10* (i) variables (ii) if ... else statement (iii) echo command (iv) break and continue Briefly discuss the following network (b) devices, mentioning connecting and working purpose, operating layer principle: 10 (i) Repeaters (ii) Hubs (iii) **Bridges** Routers (iv)
- **5.** Write short notes on the following: $4 \times 5 = 20$
 - (a) SNMP and UDP
 - (b) LINUX Utilities
 - (c) User-to-User Communication in LINUX
 - (d) Redundant Array of Independent Disks (RAID) and its Implementation

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