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MCS-022

MCA (Revised) / BCA (Revised)

Term-End Examination, 2019

MCS-022: OPERATING SYSTEM CONCEPTS
AND NETWORKING MANAGEMENT

Time: Three Hours

[Maximum Marks: 100

(Weightage 75%)

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

- (a) How collision can be avoided on CSMA/CD network? Compare CSMA/CD and token passing access methods. [10]
  - (b) Write a Shell Script program to find Greatest
     Common Divisor (GCD) for any two numbers.
     Ensure that your script carries out basic error checking. [10]
  - (c) What is Network File System (NFS)? Write steps to configure a Linux machine to work as on NFS server. [10]

(d) Explain functions of Primary Domain Controller. Also, explain the role of the 'primary domain controller' and 'backup domain controller' in enhancing security of window 2000 server.

[10]

- (a) Explain the memory management model of the Linux Operating System. [10]
  - (b) Compare and Contrast the 'Mandatory Access Control" and "Discretionary Access Control" mechanism in windows 2000. [10]
- (a) Discuss, how windows 2000 manage the domains. Also, explain how the trust relationship is created and managed between domains. [10]
  - (b) What is packet filtering? Explain its advantages and limitations. How these limitations are overcome by stateful packet filtering firewall.

[10]

4. (a) Write the usage for the following Linux/Unix Commands. Give an example for each:

[2½×4=10]

		(i)	Netstat	
		(ii)	Cmp	
		(iii)	Ping	
		(iv)	Chmod	
	(b)	List and explain any five network topologies. Also		
		make	e suitable diagram for each.	[10
5.	Write	[5×4=20]		
	(a)	Multithreading		
	(b)	Packet Switching		
	(c)	IPSec		
	(d)	EFS Services		
			x	