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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 resonant and the second sec

- (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.
 - (c) What is Network File System (NFS)? Write steps to configure a Linux machine to work as on NFS server. [10]

MCS-022 (1) [P.T.O.]

(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]

- 2. (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 suitable diagram for each. [10]
- 5. Write short notes whe following: [5×4=20]
 - (a) Multithreading
 - (b) Packet Switching
 - (c) IPSec
 - (d) EFS Services

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