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MCS-022

MCA (Revised) / BCA (Revised)
Term-End Examination
December, 2014

06134

MCS-022 : OPERATING SYSTEM CONCEPTS AND NETWORKING MANAGEMENT

Time : 3 hours *Maximum Marks : 100*

(Weightage 75%)

Note : *Question no. 1 is* ***compulsory****. Answer any* ***three*** *questions from the rest.*

1. (a) Explain the collision avoidance mechanism of CSMA/CD. Also, differentiate between CSMA/CD and token passing access methods. *8*

(b) Describe the concept and advantages of using EFS services in Windows 2000. *7*

(c) What option in Registry Management will be useful in tracking who accessed the registry, from where, and when ? Also, write the steps for enabling this option. *5*

(d) How does Windows 2000 manage the domains ? Also, explain how the trust relationship is created and managed between domains. *9*

(e) Explain the steps for configuring the Local Area Network (LAN) in LINUX system. *7*

(f) List the IPv4 class formats and its uses. *4*

2. (a) Explain the built-in groups supported by Windows 2000. Also, discuss the group policies of each group. *8*

(b) Explain the process of encryption and decryption in symmetric key, asymmetric key crypto systems. *8*

(c) Write the advantages of Virtual Private Network. *4*

3. (a) Compare and contrast between Network operating systems and Distributed operating systems. Also, list the advantages of Distributed operating systems over Centralized operating systems. *8*

(b) Write a Shell script which will delete the temporary files from all local users after 24 hours of their creation/modification. Also, make the flow chart of this Shell script. *10*

(c) Differentiate between bridges and gateways. *2*

4. (a) Explain the file systems supported by LINUX systems. Compare these file systems with NTFS. *8*

(b) Compare and contrast the 'Mandatory Access Control' and 'Discretionary Access Control' mechanisms in Windows. *5*

(c) What is print server ? Write the steps to configure a print server in LINUX system. *7*

5. Write short notes on the following (any ***four***) : *4×5=20*

(a) Proxy Server

(b) DNS

(c) RAID

(d) Network Topologies

(e) TCP/IP