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MCS-022

MCA (Revised)

Term-End Examination

December, 2011

MCS-022 : OPERATING SYSTEM CONCEPTS AND NETWORKING MANAGEMENT

Time : 3 hours

0945

Maximum Marks : 100

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

- (a) What are the two modes in which Windows 3+5
 2000 system works ? Explain its architecture with the help of a diagram.
 - (b) What is the default networking protocol in 3 Windows 2000 ? What are its features ?
 - (c) What are the different states of a process in 6 Linux ?
 - (d) How does a Token Bus Network Work ? In 6
 what ways is its working different from token ring ?
 - (e) Explain the process used by Kerberos to 6 authenticate network clients logging onto a Windows 2000 domain.

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- (f) Write the Linux/Unix commands for the followings :
 - List all files have 3 or more characters (i) in their name.
 - Symbolically link two files in a (ii) directory.
 - To communicate to another user (iii) logged on by writing to the bottom of their terminal.
 - To change the priority of a process. (iv)
- Explain the characteristics of multimedia (g) operating system.
- (a) What is the role of transmission media in 6 networking? Differentiate between guided and unguided media with suitable examples.
 - (b) What is a repeater ? At which level of OSI 6 model is it used? How?
 - (c) What is a protocol ? List and explain two 8 application level protocols.
- 3. Write a shell script which will redirect the (a) 10 output of the data command without the time into a file. Also, make the flow chart of this shell script.

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- (b) What are the security services provided by 10 the IP Sec ? Explain the Window 2000 IP Sec components. Also, explain the policy options for IP Sec implementation.
- 4. Explain the principle of CSMA/CD (a) . 8 protocol. Also, explain its working with the help of a suitable example.
 - (b) Describe the process (step by step) of sharing 9 files, folders and devices in Windows XP.
 - Write the steps to map (assign) a drive letter (c) 3 to a network computer or folder.
- 5. Differentiate between the following :
 - Simplex, Half duplex, and Full Duplex (a) Communication.
 - Symmetric and asymmetric Cryptography (b)
 - (c) LAN, MAN and WAN
 - (d) Packet Filtering Gateways and Stateful Packet Filtering

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