

MCA (Revised)

Term-End Examination

December, 2010

**MCS-022 : OPERATING SYSTEM CONCEPTS
AND NETWORKING MANAGEMENT**

Time : 3 hours

Maximum Marks : 100

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

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1. (a) Explain the following : 5x2=10
 - (i) RAID
 - (ii) UPS
 - (b) Explain the broad classifications of Advanced operating system. 5
 - (c) Differentiate between :- 5
simplex, half duplex and full duplex mode of data flow.
 - (d) Differentiate between gateways, routers and switches. 5
 - (e) Explain the following with reference to Windows 2000 : 5x2=10
 - (i) Concept of domain.
 - (ii) Trust Relationship.
 - (f) Write shell script in Linum for country the frequency of a given word in a given file. 5
 2. (a) Discuss abstract model of virtual to physical address mapping with reference to LINUX operating system. 7

- (b) Differentiate between absolute and relative pathnames with the help of examples. Explain how to specify absolute and relative pathnames in LINUX operating system ? 8
- (c) With reference to LINUX operating system explain what will happen if we try to unmount a file system when users are working on it ? 5
3. (a) Explain the following with reference to windows 2000 :- 5x3=15
- (i) When security groups should be used instead of distribution groups ?
- (ii) User Administration
- (iii) Network Protocols
- (b) Explain the basic purpose of enabling the offline features in Windows XP. 5
4. (a) Explain in detail various types of Computer Networks as classified according to geographical area. 5
- (b) Explain SNMP protocol in detail. 10
- (c) Describe kerberos management in Windows 2000 OS. 5

5. (a) Write short notes on the following : 5x4=20

- (i) Cryptography.
 - (ii) IP sec.
 - (iii) Concept of pipes, filters and redirection in LINUX operating system.
 - (iv) Backup and Restoration in Linux.
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