

MCA (Revised)

Term-End Examination

June, 2012

**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.

1. (a) Discuss the functionality of *User* and *Kernel* modes of Windows 2000 operating system. 10
- (b) Explain the process and thread management in LINUX o/s. 10
- (c) With the help of Architecture diagrams explain the Simple Network Management Protocol (SNMP) and User Datagram Protocol (UDP). 10
- (d) What is the use of Transmission media in Networking ? List and explain various guided and unguided transmission media with their advantages and disadvantages. 10

2. (a) Explain the abstract model of Virtual memory in Linux o/s with the help of an address mapping diagram. 10

- (b) Explain how NTF's, FAT 16 and FAT 32 file systems are supported in Windows 2000 o/s. 10
3. (a) Explain various User Authentication methods that the computer system uses. 10
- (b) Discuss Registry Management in WINDOWS. 10
4. (a) Write the purpose of VPN and name VPN technologies supported by WINDOWS 2000. 5
- (b) Write the procedure to use the mapped drive in WINDOWS 2000 o/s. 5
- (c) Explain the Backup and Restoration procedures in LINUX. 10
5. Write short notes on the following : 5x4=20
- (a) Kerberos management in WINDOWS 2000 o/s.
- (b) Distributed o/s
- (c) Trivial File Transfer Protocol (TFTP)
- (d) Pipes and filter commands in LINUX.
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