

02042

MCA (Revised)

Term-End Examination

June, 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) What is a Computer Network ? Discuss its advantages and disadvantages in detail. **10**
 - (b) Differentiate between Multiprogramming and multithreading. **5**
 - (c) Discuss layered architecture of Windows 2000 operating system. **10**
 - (d) Discuss the important features of LINUX operating system. **10**
 - (e) Write a shell script in LINUX to count the number of words in a given file. **5**

 2. (a) Explain in detail two computer security mechanism. **10**
 - (b) Explain the logical and physical structure of active directory with reference to Windows 2000. **10**

3. (a) What are wild cards ? Discuss their importance with examples. 8
- (b) Mention the usage of following LINUX commands with an example of each : 2x4=8
- (i) tail
 - (ii) grep
 - (iii) chmod
 - (iv) sort
- (c) What happens if you try to "cat" a non-existing file ? Explain the steps taken by OS to handle this. 4
4. (a) Explain in detail various types of guided transmission media. 10
- (b) Explain FTP and TELNET. Discuss their importance and uses. 10
5. Write short notes on the following : 5x4=20
- (a) Domain Name System.
 - (b) Peer-to-Peer Network.
 - (c) Virtual Private Network remote access in Windows 2000.
 - (d) Firewall.
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