

MCA (Revised)
Term-End Examination
June, 2007

**MCS-022 (S) : OPERATING SYSTEM
CONCEPTS AND NETWORKING
MANAGEMENT**

Time : 3 hours

Maximum Marks : 100

Note : Question number 1 is **compulsory**. Answer any **three** questions from the rest.

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1. (a) Describe the working of the encrypting file system in Windows 2000. 5
 - (b) What are the different classes of Linux installations ? Describe when each is suitable for use. 5
 - (c) What are the responsibilities of a system administrator in a large Linux installation ? 5
 - (d) How would you manage user hours and the expiry date for user accounts in Windows 2000 ? 5
 - (e) Distinguish between unicasting, multicasting and broadcasting. 5

- (f) What are the psychological factors to be considered while designing a GUI ? 5
- (g) How would you access network resources using "My Network Places" in Windows 2000 ? 5
- (h) Describe how you would harden your operating system and applications (from the security point of view) in Windows 2000. 5
- 2.** (a) Describe the various network topologies with diagrams and analyse their advantages and disadvantages. 10
- (b) What are the main issues in Windows 2000 security management ? 5
- (c) What are the checks that should be done before installing Linux on a machine ? 5
- 3.** (a) Describe how an e-mail message reaches its destination and is then accessed by the recipient. Indicate the different protocols used and their roles in the process. 8
- (b) What is the registry in Windows 2000 ? Describe its purpose, usage and configuration. 6
- (c) What is a modem ? Describe the features of different types of modems. 6

4. (a) Describe the features of the X-Window System. 8
- (b) What is meant by mapping a drive in Windows 2000 ? How does one create and manage a mapped drive ? 6
- (c) Write down the steps for booting and shut down of a Linux system. 6
5. Describe the following : 4×5=20
- (i) Client Server Model in operating systems
- (ii) Management of Group Policies in Windows 2000
- (iii) Domain and Workgroups
- (iv) Application Proxy Firewall

