MCA (Revised)

Term-End Examination

June, 2007

MCS-022 Ⓢ : 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.*

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