

MCA (Revised) / BCA (Revised)

Term-End Examination

June, 2015

1 1 2 8 3

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

Time : 3 hours

Maximum Marks : 100

(Weightage 75%)

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

1. (a) Briefly explain the following in the context of Domain Name System : 10
 - (i) Design Goals
 - (ii) Design Principles
 - (iii) Architecture
 - (iv) DNS Zones
- (b) Explain the memory management in LINUX operating system. 10
- (c) Discuss the Users' Administration in WINDOWS 2000 by highlighting : 10
 - (i) Existing User Accounts Modification
 - (ii) Managing User Profiles
 - (iii) Group Accounts Administration
 - (iv) Auditing

- (d) Explain how fault tolerant systems can be designed to protect the system in the event of hardware failures using the following techniques : 10
- (i) System Fault Tolerance technique
 - (ii) RAID
2. (a) Describe the process and file management in LINUX operating system. 10
- (b) "A LINUX machine can be configured to work with a Network File System (NFS), where files on other machines on the network can be made available as if they were local files." Explain the process of configuring it. 10
3. (a) List and explain the various Network protocols being supported by WINDOWS 2000. 10
- (b) Discuss the purpose of Virtual Private Network and explain how it can be configured in WINDOWS 2000. 10
4. (a) List the components of WINDOWS 2000 kernel and mention the functionality of each component. 10
- (b) Describe the purpose and functioning of the following network devices : 10
- (i) Repeaters
 - (ii) Hubs
 - (iii) Bridges
 - (iv) Gateways

5. Write short notes on the following :

20

- (a) Network and Distributed operating system
 - (b) Auditing the Registry Access of WINDOWS 2000
 - (c) Backup and Restoration in LINUX
 - (d) Shell Scripts and its uses in LINUX
-