MASTER OF BUSINESS ADMINISTRATION (NETWORK INFRASTRUCTURE MANAGEMENT) (MBANIM)

00039

Term-End Examination

December, 2010

MCRI-004 : INTRODUCTION TO NETWORKING

Time : 3 hours   *Maximum Marks : 100*

Note :   *Answer **any five** questions. All questions carry **equal** marks*

1. (a) What are the reasons for having layered   **12** architecture in networking models ? How many layers are there in the TCP/IP model ? List any two functions of each layer of the TCP / IP model.

   (b) What is the difference between Inter   **8** network and LAN ? Explain the role of repeaters, bridges and routers in Inter networking.

2. (a) Explain simplex, half–duplex and full–duplex   **9** communication systems using an example for each.

   (b) Explain the characteristics of various wired   **11** communication mediums (cables). Also, explain the mechanism of light propagation in the fiber optics cable.

3. (a) Is there any relation between MAC address 10 and IP address of a host ? How is an IP address represented ? Explain its components.

(b) What is meant by DNS ? Discuss the 10 following issues related to DNS :
(i) Name - Address resolution
(ii) Distribution of Name Space
(iii) DNS messages.

4. (a) Explain the various Disk management 10 utilities available in Linux server used for configuring its clients.

(b) What is Network File System (NFS) ? How 10 would you configure a Linux machine to work as an NFS server ?

5. (a) How would you configure a Linux client to 10 ensure that users can log - on to the server only during the specified times ?

(b) What is RAID ? What are levels of RAID 10 (from 0 to 5) ? Which one is better and why ? Explain the importance of each level.

6. (a) Explain the services of exchange server in 10 Windows 2003 server. Also, explain the process to recover exchange server, when the log file is corrupted.

(b) What is Kerberos ? Explain the working of 10 Kerberos used with Windows 2003 server.

7. (a) What is Active Directory ? Explain its **10** advantages and services in Windows 2003 server.

(b) What are Group Policies ? Explain the **10** process of applying these group policies in proper order.

8. Describe the following with illustration examples or diagrams as needed. **4x5=20**

(a) Intrusion Detection System.

(b) Distance Vector Routing

(c) Virtual Private Network

(d) Security threats.