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

00363

Term-End Examination
December, 2011

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 factors that determine whether   **10**
         a communication system is a LAN, MAN
         or WAN ?
         What are the reasons of having layered
         architecture in networking models ?

    (b) What is the principal difference between   **10**
         connectionless communication and
         connection-oriented communication ? How
         do the layers of TCP/IP protocol suite
         correlate to the layers of the OSI model ?

2. (a) What is the difference between network   **10**
         layer delivery and transport layer
         delivery ? Explain by taking suitable
         example. What is a peer to peer process ?

    (b) Describe the components of a fiber-optic   **10**
         cable. Draw a picture. Why should the light
         ray be reflection rather than refractive in
         fiber optics ?

3. (a) What kind of problems can arise when two 8
hosts on the same Ethernet share the same
hardware address ? Describe what happens
and why that behaviour is a problem.

   (b) IP currently uses 32-bit address. If we could 12
redesign IP to use the 6-byte MAC address
instead of the 32-bit address, would we be
able to eliminate the need for ARP ? Explain
why or why not. How is an IP address
represented ?

4. (a) What is Linux Boot Loader ? Explain. What 10
is the main advantage of creating links to a
file instead of copies of the file ? Explain by
taking suitable example. Write a suitable
command to find all the files which have
been accessed within the last 30 days.

   (b) In Linux how partitions are created and the 10
Filesystems ? What is the procedure of
controlling Filesystem using Mounting and
Unmounting ? Explain how the integrity of
Filesystems is maintained.

5. (a) What is DHCP ? Explain how to configure 10
DHCP server for Linux. Also write some
Linux commands for configuring
networking.

   (b) What is the purpose of using Mail Server ? 10
Give the examples of different types of mail
servers. Explain the Procedure of
configuring Linux to use Email clients.

6. (a) Explain the services provided by Windows **10** Server 2003 Active Directory. In amongst a huge complicated domain structure, there were 6 member servers in a Workgroup. How would you configure an audit policy ?

   (b) What is Kerberos ? Explain the working of **10** Kerberos protocol. Explain Kerberos negotiations. With neat and clean diagram.

7. (a) What is Active Directory ? Explain the **10** procedure of installing and configuring it in windows 2003.

   (b) How do FAT and NTFS differ in approach **10** to user shares ? Explain the procedure for group policies for the Windows Server 2003.

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

   (a) Ad hoc On demand Distance Vector (AODV)

   (b) Firewalls

   (c) Virtualization

   (d) Routing Protocols