|MCRI-009|

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

00852

Term-End Examination

December, 2011

MCRI-009 : NETWORK DESIGN AND MANAGEMENT

Time : 3 hours   *Maximum Marks : 100*

Note : Attempt any five questions. All questions carry equal marks. Assume data wherever necessary. Draw neat and clean diagram.

1. (a) Explain the advantages of using a switch **10** for computer networks ? How switch is different from Router.

    (b) Explain basic switching concepts and the **10** operation of CISCO switches.

2. (a) What is SSH ? What is the difference **10** between ARP and RARP ? Explain SHOW and DEBUG commands while operating a switch.

    (b) What are the common problems faced due **10** to switch hardware failure ? Explain the procedure for identifying such types of failure.

3. (a) What is routing ? What is VLAN ? Explain **10**
the different types of VLAN ? Also explain
how it is different from normal LAN.

   (b) Explain how to configure, verify and **10**
troubleshoot VLAN ? Explain the method
of troubleshooting VLAN.

4. (a) What is the procedure of implementing **10**
basic switch security ? Also explain how
security of ports can be done and trunk
access.

   (b) What is the difference between private and **10**
public IP addressing ? Explain the
addressing method used by IPv4 ?

5. (a) What do we mean by Routing ? Explain **10**
how router is used for the purpose of
routing ? Give some commands of
configuring a CISCO router.

   (b) Explain some of the differences between **10**
static and dynamic IP addressing. Also
explain advantages and disadvantages of
each.

6. (a) 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

   (b) Give the classification of different IP **10**
addresses. Explain the concept of
subnetting.

7. (a) What do you understand by classless 10
addressing scheme ? Explain classless
addressing scheme using VLSM IP.

(b) Explain the following terms related to 10
router :

(i) Router lookup process

(ii) Router bootup process

8. Write short notes on the following : 10x2=20

(a) DHCP

(b) Traceroute command

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