Roll No ....

MCSE/MSE - 105
M.E./M.Tech., I Semester
Examination, December 2013
Advance Computer Networking

Time : Three Hours

Maximum Marks : 70

Note: Attempt all units with internal choices.

Unit - I

1. a) A group of N stations share a 56 kbps pure ALOHA channel. Each station output a 1000 bites frame on an average of once every 100 sec, even if the previous one has not yet been sent. What is the maximum value of N?

   b) Explain 802.3 standard.

OR

2. a) List two ways in which OSI reference model and the TCP/IP reference model are the same. Now list two ways in which they differ.

   b) A 4 MBPS token ring has a token holding timer value of 10 m/sec. What is the longest frame that can be sent on this ring?

Unit - II

3. Explain TELNET, FTP and TFTP, HTTP protocol with suitable example.

OR

4. Explain SMTP, SNMP, DHCP, DNS protocol with suitable example.

Unit - III

5. a) Explain RIP protocol and also discuss different timer used in RIP protocol.

   b) IP address 192.168.20.25 and subnet mask 255.255.255.192 find out

      i) Broadcast address

      ii) How many subnet possible and how many host in each subnet.

OR

6. Explain CIDR and MOSPF protocol in detail.

Unit - IV

7. Write a short note (any two)

   i) VPN addressing and routing

   ii) ATM

   iii) VPN Hast management

Unit - V

8. Write a short note (any two)

   i) GSM and CDMA

   ii) Medium access control in WLAN

   iii) IEEE 802.11

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