

MEDC - 203

M.E./M.Tech., II Semester

Examination, June 2014

Network Design Technology

Time : Three Hours

Maximum Marks : 70

Note : Attempt any five from eight questions.

1. Explain the TCP/IP model? Also describe the function of each layer?
2. a) Explain the following:
 - i) Bit rate
 - ii) Band rate
 - iii) Error rate
 - iv) Bandwidthb) Explain the Medium Access Control Techniques? Also write down the applications?
3. Describe the various objectives and services provided by ISDN? Also explain what types of channel associated with ISDN?
4. a) Compare between the LAN and WAN Technology?
b) Explain the packet switched networking?

5. Explain the various protocols:
 - i) RIP
 - ii) OSPF
 - iii) BGP
6. What is X.25? Also explain the protocols, advantage and disadvantage of X.25?
7. What is Internet protocol? Also explain the IPv4 and IPv6 in detail?
8. Write a short note: (any two)
 - i) ATM adaptation layer
 - ii) Frame relay
 - iii) Ring topologies
 - iv) MAC layers
