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Roll No

MEDC - 203**M.E./M.Tech., II Semester**

Examination, December 2015

Network Design Technology**Time : Three Hours****Maximum Marks : 70**

- Note :** i) Attempt any five from eight questions.
 ii) All questions carry equal marks.

1. a) Define protocol layering principle. Explain layering in TCP/IP Internet Environment. 7
 b) Describe the various issues related to measuring network performances. 7
2. a) Explain how FDDI allows robust networking after a cable break? Discuss the FDDI token format. 7
 b) What is routing of IP packets? Discuss various routing information protocol. 7
3. a) What is Interior and Exterior Routing? Explain the operation of OSPF with the help of diagram showing appropriate routers. 7
 b) "TCP is a connection-oriented, reliable protocol". Justify the statement. 7
4. a) Differentiate between TCP and UDP. 7
 b) Write the difference between IPv4 and IPv6. 7

5. a) Explain the concept of ISDN on the following points: 7
 i) Principles of ISDN
 ii) Architecture of ISDN
 b) What do you understand by fast Ethernet? Explain in details. 7
6. a) Describe the structure and contents of a token and an information frame as used in a token ring LAN. 7
 b) Give the advantages and disadvantages of different LAN Topologies. 7
7. a) What is ATM? Explain ATM protocol architecture. 7
 b) BGP is also distance vector protocol. How is it different from RIP? 7
8. Write Short notes on the following :(any four) 14
 a) LLC sublayers
 b) MPLS
 c) Congestion control
 d) ISDN Standards and Services
 e) X.25
