University of Mumbai

T.E Third Year 2013 - 2014 May

Semester 6 (TE Third Year)

Advance Computer Network

www.shaalaa.com

QP Code :MV-18210

(3 Hours) [Total Marks : 100

N.B. : (1) Question **No. 1** is **Compulsory**.
      (2) Attempt any **four** from remaining **six** questions.

1. (a) Explain Distance Vector Routing and Hierarchical routing with examples.   10
   (b) Explain the SONET Frame structure.   10

2. (a) Compare RIP and OSPF Protocol. Explain OSPF operations with the help of common header.   10
   (b) What is RTP ? Explain the RTP Frame format in detail.   10

3. (a) Differentiate between HUB, BRIDGE, ROUTER on the basis of collision and broadcast domain.   5
   (b) Explain different traffic descriptors used in ATM.   10
   (c) Explain the following traffic characteristics : Delay, Jitter, Burstiness, Throughput, Lost Packet Percentage.   5

4. (a) Explain in detail Multiprotocol Label Switching (MPLS).   10
   (b) What are different Queuing Models, Explain any one in detail.   10

5. (a) Explain NAT, Dynamic NAT, Static NAT. What are advantages and disadvantages of NAT.   10
   (b) Compare X.25 and Frame Relay.   10

6. (a) Explain Stream Control Transport Protocol, its services and Features.   10
   (b) Explain H.323 std. in detail.   10

7. Write short note on any two   20
    (a) SNMP
    (b) X.75
    (c) SAN
    (d) DMZ, its working, single firewall and double firewall system.

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