



- Notes :
1. All questions carry equal marks.
  2. Illustrate your answers wherever necessary with the help of neat sketches.
  3. All questions are compulsory.

1. a) Classify Sub netting and super netting with the help of suitable example. 8
- b) What are ICMP messages? Explain Error reporting messages with their packet format. 8

**OR**

2. a) Explain the functions of DHCP Protocol with respect to DHCP Server and DHCP enable client Communication. 8
- b) Evaluate Three level addressing concept. 8

3. a) Illustrate Distance Vector Routing Algorithm with suitable example. 8
- b) List the types of IGMP messages and its formats. 8

**OR**

4. a) Describe Routing information protocol with proper packet format. 8
- b) Differentiate between Static Versus Dynamic routing. 8

5. a) Distinguish between UDP, TCP and SCTP. 8
- b) Explain the functionalities of UDP. Draw and discuss UDP header. Also state scenario where UDP is favorable for use. 8

**OR**

6. a) Describe the congestion control and flow control mechanism offered by TCP. 8
- b) Discuss the transition from IPv4 to IPv6. 8

7. Write short note on: 16
- i) FTP ii) TELNET.

**OR**

8. a) Describe the Email processing model? Explain how Emails are sent and receive using SMTP. 8
- b) Describe name resolution in DNS. 8

9. a) Differentiate between Audio compression and Video compression technique. 8
- b) Explain RTCP packet format. 8

**OR**

10. a) Explain MIME protocol. 8
- b) Write different characteristics of H-323. 8

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