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

1. a) Differentiate between two level addressing and three level addressing. 8
b) Write note on: 8
 - i) Domain name system.
 - ii) BOOTP.

OR

2. a) Draw and explain Query messages of ICMP with its packet format. 8
b) Evaluate the concept of Classless Inter-Domain Routing (CIDR) with suitable example. 8
3. a) What is Routing? Classify Dynamic versus static routing. 8
b) Draw and explain packet format of all messages for Open Shortest Path First (OSPF) protocol. 8

OR

4. a) Write note on: 8
 - i) IGMP
 - ii) DVMRP
b) Explain any one unicast routing protocol with neat sketch. 8
5. a) Compare all operations of TCP and UDP. 8
b) How data can be transferred using transmission control protocol? 8

OR

6. a) Explain selective Repeat protocol in detail. 8
b) Classify the concept of TCP and SCTP. 8
7. a) Write note on: 8
 - i) FTP (File Transfer Protocol)
 - ii) WWW (World Wide Web)

- b) Discuss the concept of socket Interfacing. 8

OR

8. a) Discuss the following term with related to domain name system 8
i) DNS attacks
ii) DNS Resolution

- b) How e-mails are represent and transferred in application layer? Discuss it. 8

9. a) Write characteristics of H-323. 8

- b) Explain S/MIME protocol. 8

OR

10. a) What is RTP? Draw and explain packet format of RTP. 8

- b) Write note on “Voice over IP” (VoIP). 8
