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- Notes : 1. All questions are compulsory.
2. Assume suitable data wherever necessary.
3. All question carry equal marks.

1. a) What are types of cable media used in Networking. Explain with neat sketches of each. 8
b) Explain OSI Model with diagram? 8
- OR**
2. a) What is Computer Network? Explain its types? 8
b) Explain “Sliding window protocol” & “Go back-N” protocol. 8
3. a) What is switching? What are the different types of switching technique. 8
b) Explain the concept of pure ALOHA and Slotted ALOHA. 8
- OR**
4. a) Write short note on Ethernet. 8
b) Explain IEEE 802.4 Token bus in detail. 8
5. a) What are various framing techniques? Explain briefly. 8
b) Explain cyclic Redundancy code (CRC) with the help of an example. 8
- OR**
6. a) Difference between virtual circuits & Datagram Subnets. 8
b) What is Routing? Explain Routing Algorithm? 8
7. a) What is IP Addressing? How is it classified? Explain the various classes of IP addresses. 8
b) Explain the concept of socket programming. 8
- OR**
8. a) Why does UDP exist? Explain wireless TCP in detail with neat sketch. 8
b) Write a note on following elements of Transport protocol. 8
i) Connection. ii) Flow control & Buffering.
9. a) Explain architecture and function of an E-mail system. 8
b) Write a short note on Digital signature with public key cryptography. 8
- OR**
10. a) What is world wide web? Draw and explain architectural overview of the same. 8
b) Write a note on TCP Header. 8
