

Assignment I

1. What is computer network? Explain client-server and peer-to peer model of computer network.
2. State pros and cons of computer network. Describe the application areas of computer network.
3. Explain various LAN topologies.
4. What is transmission impairments? State and explain in brief different factors of transmission impairments.
5. Define frequency and bandwidth. Differentiate between synchronous and asynchronous transmission.
6. Describe simplex, half duplex and full duplex modes of transmission with example.
7. Describe FDM (Frequency division multiplexing) and TDM (Time division multiplexing).
8. Why modulation technique is important in data communication? Describe different types of modulation technique use in network.
9. Describe message switching, circuit switching and packet switching.
10. What is OSI reference model? Explain its layers with clear diagram.
11. What is protocol stack? Describe hub, bridge, switch and repeater.
12. What is transmission media? Explain guided transmission media used in network.
13. Describe unguided transmission media used in computer network.
14. How ISDN is different from PSTN?