

Assignment - 1

B.Tech.CE Sem-IV

CE 313 Computer Network

Given Date : 20/01/2025

Submission Date: 10/02/2025

1. Discuss the components of Data Communication.
2. Discuss categories of Data Communication Standards.
3. Define Computer Network. List its types.
4. Discuss any one type of Computer Network.
5. What is Network Topology? Discuss its types.
6. Discuss the Advantages and Disadvantages of Ring Topology.
7. Explain types of Mesh Topology.
8. Explain advantages and disadvantages of Mesh Topology.
9. List various types of protocols and discuss about any two of them.
10. Why we need Layered Network Architecture.
11. Explain the basic elements of Layered Network Architecture.
12. Draw and discuss OSI reference model.
13. Draw and discuss TCP/IP model.
14. Discuss the difference between OSI and TCP/IP model.
15. List different types of cables and discuss any one in detail.
16. Explain Network Interface Card with its types.
17. Discuss about Hub with its types.
18. Explain Switch with its types.
19. Explain Router with its type.
20. Explain Gateway types on basis of functionalities.