1. What is the Physical Layer in the OSI model? List its key functions.

2. Write Five service primitives for implementing a simple connection-oriented service.

3. What is the Application Layer in the OSI model? Explain its function

4. Compare the different sliding window protocols

5. Explain the various transmission media in detail. What are the functions of MAC?

6. What is CSMA? List the protocols used with CSMA

7. Define the term carrier sense in CSMA/CD?

8. Write the A Comparison of the OSI and TCP/IP Reference Models.

9. Explain in detail about communication satellite. Define Ethernet

10. What is fast Ethernet and gigabit Ethernet?

11. What are the advantages and disadvantages of computer networks?

12. Write short notes on a. TCP b. UDP

13. What is a network? And what are the benefits of the networks?

14. Explain the OSI reference model with neat diagram.

15. What are the different types of transmission media used in computer networks?

16. What is network topology? Explain the different network topologies.

17. Compare the following networking devices - a) Hub and Switch

18. Write Short Note on following: a. Domain Name Space (DNS) b File Transfer Protocol (FTP),

19. Explain the TCP/IP reference model with neat diagram.

20. Data-10010010101110001100 & Divisor - 11110.Find the transmitted code using CRC?

21. What is the difference between MAC address and IP address? List the features of token bus protocol.

22. Compare TCP and IP services.

23. Define Computer Network? Give the difference between a network and distributed system?

24. Discuss the applications and goals of the computer networks

25. Explain briefly the functions of different layers of the OSI reference model

26. Give the difference between ISO OSI and TCP /IP model.

27. Discuss the difference between connection –oriented and connections-less services

28. Briefly explain about the Novel NetWare and ARPANET

29. explain the different types of transmission medias?

30. Give the advantages and disadvantages of using fiber optic cable over metallic cable.   explain the functions of Data Link Layer..

31. Discuss various Error detecting and correcting methods.

32. Explain CRC method with your own example.

33. Explain Hamming code method with your own example.

34. What is meant by Flow control? Discuss different flow control methods.

35. Discuss various stop and wait protocols.

36. Explain sliding window protocol.

37. Discuss the CSMA protocols.

38. 13 Explain different STOP and WAIT protocols.

39. 14 Explain persistence and non-persistence CSMA protocol