

Computer Networks

- *These are the computer networks questions. You can refer them for the preparation for the Exam.*
- *The questions may be asked in a twisted manner. So be prepared.*

1. What is computer Network?
2. Explain different types of networks?
3. Explain the structure of computer network?
4. What is point to point and Multipoint connection?
5. What are the components of computer networks?
6. Define different types of network topology .with diagrams
7. Describe the OSI reference model
8. Describe the TCP/IP reference model
9. Differentiate OSI reference model and TCP/IP reference model
10. Write the similarities between OSI and TCP/IP reference model
11. What is data rate and Bandwidth.
12. Explain the fiber optic cable with neat diagram. Give advantages and disadvantages.
13. Explain the different types of Guided Media.
14. Explain the different types of Unguided Media
15. What is Multiplexing?
16. Explain Frequency division Multiplexing
17. Explain Wave division Multiplexing
18. Explain Time division Multiplexing
19. Explain switching.
20. Explain different types of Switching.
21. What is error control? Mention different types of errors
22. What is byte stuffing? Give one example
23. What are the different types of error detection and error correction codes?
24. What are the main functions of the Data link Layer?
25. Explain the framing methods used in Data Link Layer. Give examples
26. What is Hamming code? How to Generate Hamming Code for the data 1110(Even Parity)
27. Explain about the Sliding Window Protocol?

28. If the 7-bit hamming code word received by the receiver is 1011011. Assuming the even parity.
State whether the received code word is correct or wrong. If wrong locate the bit having error.
29. What is Checksum? Given the data 10011001 11100010 00100100 10000100 find the checksum
and check whether it is accepted or rejected.
30. What is CRC code? Explain with one example
31. What are the Parts of a Frame?
32. What are the advantages and disadvantages of Hamming Code?
33. Write the Difference between Go-Back-N and Selective Repeat Protocol
34. What is Bit Stuffing? Give Example.
35. What is Piggy backing?
36. What is error control and flow control
37. What are the Design issues in the network Layer?
38. What is Distance Vector routing algorithm? Explain with example.
39. Explain the shortest path routing algorithm?
40. What is congestion control?
41. What is flooding?
42. Write the difference between Leaky bucket and token bucket algorithm.
43. Explain Hierarchical routing?
44. What are the advantages and disadvantages of distance vector routing?
45. What are the features of TCP Protocol?
46. Give the format of TCP Protocol?
47. Give the format of UDP Protocol?
48. What is Domain Name System?
49. Explain about the electronic Mail(E-Mail).
50. What is World Wide Web? Explain.
51. What is the Difference between TCP and UDP?

