

Question Bank (K-Scheme)

Name Of Subject: Computer network & Data communication

Unit Test: I

Subject Code: 316338

Course: EJ6K

Semester: VI

Unit - I Fundamentals of Data Communication and Computer Network

14 M

2 Marks Questions

1. Define data communication and state its characteristics.
2. List the modes of data transmission .
3. List different types of topology.
4. State the network classification in details.

4 Marks Questions

5. Explain the functions of components of data communication with block diagram .
6. State advantages of Computer Network
7. Which Criteria should be followed while designing a computer Network .
8. Compare LAN , WAN , MAN
9. Draw block schematic of star and ring topology state their advantages and disadvantages .
10. State advantages of client server over peer to peer model.
11. Explain point to point , multipoint and broadcast network.
12. On which layer the following devices work i) Hub ii) Switch iii) Router iv) Repeater

Unit - II Network models and Physical layer

14 M

2 Marks Questions

13. Draw TCP/IP protocol suite .
14. State any four functions of data link layer of OSI model .
15. List addressing modes TCP/IP
16. State classification of transmission media .
17. State applications of coaxial cable and optical fibre cable .
18. Compare twisted pair coaxial and optical fibre cable
19. Draw construction of UTP and STP state , their applications
20. List different network connecting devices

4 Marks Questions

- 21. Describe addressing modes in TCP/IP.**
- 22. Draw OSI reference model state function of application layer , Network layer .**
- 23. Draw construction of optical fibre cable , their applications**

Unit - III Data Link Layer **8M**

2 Marks Questions

- 24. Define error control and flow control**
- 25. Draw the block diagram of CRC generator**
- 26. Draw frame format for point to point protocol**

4 Marks Questions

- 27. In a particular data transmission system the data received was 1011010 using 7 bit odd parity hamming code determine correct code**
- 28. Calculate CRC for the frame 110101011 and generator polynomial is $X^4 + X + 1$ generate code word for the transmitted frame**
- 29. Describe transition phase of PPP with diagram**