

## **QUESTION BANK**

**Q1. Functions of each layer of OSI Model.**

**Q2. Difference between Error Control and Flow Control at Data link Layer and Transport Layer**

**Q3. What is meant by “Node to Node responsibility” of Frame Delivery at Data Link Layer?**

**Q4. What is meant by “End to End responsibility” of Packet Delivery at Network Layer?**

**Q5. Difference between TCP and UDP**

**Q6. Role of Routers at Network Layer?**

**Q7. IPv4 Addressing, how to find out class , subnet mask, broadcast id and network id of given IP address.**

**Q8. Difference between IP address, MAC address and Port address**

**Q9. Difference between Hub, Router, Switch, Gateway, Repeater and Bridge.**

**Q10. Difference between Active and Passive hub**

**Q11. Why Switch is called as more intelligent device than Hub**

**Q12. On what Layers of OSI Model does Hub, Router, Switch, Gateway, Repeater and Bridge works?**

**Q13. What is Ethernet? What is 802 IEEE Standard?**

**Q14. What is LAN, MAN and WAN**

**Q15. Explain different topologies.**

**Q16. Difference between**

**Q17. Name the PDUs at Different Layers of OSI model.**

**Q18. At what layer of OSI Model, the IP address attached to data unit.**

**Q19. At what layer of OSI Model, MAC address attached to data unit.**

**Q20. At what layer of OSI Model, Port address attached to data unit.**

**Q21. What is the difference between Ipv4 and Ipv6?**

**Q22. Difference between TCP/IP and OSI Model**

**Q23. What are DNS, DHCP, and HTTP PROTOCOLS?**

**Q24. Which protocols are used for Routing?**

**Q25. Which algorithms are used for Routing?**

**Q26. Types of Ethernet?**

**Q27. Differentiate between Microwaves, Radiowave, Infrared waves.**

**Q28. What is Line of Sight?**

**Q29. Differentiate between circuit Switching, Packet Switching and Message Switching?**

**Q30. Differentiate between Token Ring, Token bus and FDDI**

**Q32. What is CSMA/CD?**

**Q33. Differentiate between regulatory agencies, standard organizations and forums**

**Q34. What is Multiplexing?**

**Q35. Differentiate between Signal Modulation and Multiplexing.**

**Q36. Difference between straight through and cross over cable?**

**Q37. If I want to connect two like devices, which cable will be used?**

**Q38. If I want to connect two unlike devices, which cable will be used?**

**Q39. What is the role of Carrier Signal in Signal Modulation?**

**Q40. What is the need of Signal Modulation and Multiplexing?**

**Q41. What is Pulse Code Modulation?**

**Q42. What is Nyquist Theorem?**

**Q43. Differentiate between bit interval, bit rate, frequency and period of a signal.**

**Q44. How to calculate bandwidth of a signal.**

**Q45. Under which sub- standard of IEEE, does Wireless LAN falls?**

**Q46. Different between Modulating signal, Modulated Signal and Carrier Signal**

