



- 4) Explain parallel transmission in brief.
- 5) Discuss various categories of coaxial cable and state their use.
- 6) List various modulation techniques.
- 7) Define: Protocol Stack and Network architecture
- 8) What is satellite? List categories of satellite.
- 9) Explain orbit.
- 10) Write full form of CSMA. List different types of CSMA
- 11) Explain Gateway in short.
- 12) What are the two types of network according to connection type? What is the basic difference between them?

- Q-3 A Explain LAN in detail. 05  
 B What are the uses/advantages of computer networks? Explain in detail. 05

**OR**

- Q-3 A Write a short note on MAN. 05  
 B Explain classification of computer networks. 05

- Q-4 A Explain twisted pair cable in detail. 5  
 B What do you mean by Multiplexing? Explain FDM in detail. 5

**OR**

- Q-4 A Explain modes, advantages and disadvantages of fiber optics. 5  
 B Write the difference between circuit switching and packet switching. 5

- Q-5 A List all layers of OSI model. Explain any two of them. 6  
 B Write a note on protocol hierarchies. 4

**OR**

- Q-5 A Write a note on wireless network. 3  
 B Write a note on geosynchronous satellite. 3  
 C Write a note on design issues for the layers. 4

- Q-6 List topologies. Explain any two topologies in detail. Provide their differences too. 10

**OR**

- Q-6 Which are the network components? Explain repeater and router in detail. What are the differences among them? 10