

9. _____ techniques used in data communications to transfer data.
- a) Connection-oriented
 - b) Connectionless
 - c) TCP
 - d) both (a) & (b)
10. Which of the following transmission directions listed is not a legitimate channel?
- a) Simplex
 - b) Half Duplex
 - c) Full Duplex
 - d) Double Duplex
11. Which one of the following is not a network topology?
- a) Star
 - b) Ring
 - c) Bus
 - d) Peer to Peer
12. The connection of two or more topologies are called?
- a) Star
 - b) Mesh
 - c) Bus
 - d) Hybrid

Q.2. Discuss advantages and disadvantages of computer network. **[16]**

Q.3. Define transmission media. Explain guided media in detail. **[16]**

Q.4. Define network topology. Explain bus, star and ring topology in detail. **[16]**

Q.5. Explain OSI model in detail. **[16]**

Q.6. Explain in detail about switching techniques. **[16]**

Q.7. Discuss advantages and disadvantages of internet. **[16]**

Q.8. Write Short Notes on (Any Four) **[20]**

- a) Sliding Window Protocol.
- b) Differentiate between Connection-Oriented and Connectionless Service
- c) Define the terms – internet and intranet.
- d) Parallel and Serial Data transmission.
- e) Analog and Digital Communication
- f) Differentiate between OSI and TCP/IP