



Sheet 1

- 1) Mention three differences between a service and a protocol.
- 2) Give two advantages for using layered protocols.
- 3) Mention the names of bottom 4 layers of the OSI model and mention the main functionality for each layer and give examples for a protocol and a network device used in each layer.
- 4) Mention the names of the OSI layers which are similar to those of TCP/IP model.
- 5) Which OSI layer handles each of the following?
 - a. Delivers raw bits from one peer to the other
 - b. Provides end-to-end communication
 - c. Divide the raw bit stream into units of transmission
 - d. Determine the route from source to destination
- 6) Provide an example for each of the following:
 - a. Connection oriented protocol
 - b. Connectionless protocol
- 7) Write TRUE or FALSE in front of each of the following statements:
 - a. An implementation of a connectionless service may contain two primitives only.
 - b. In the OSI model, a protocol specifies the rules governing information exchange between adjacent layers.
 - c. IPV6 is a layer 3 protocol.
 - d. A file system provides a connection oriented service.