

connection is established, the user sends the message or the information and finally releases the connection	and each message is routed through the system independent of all the others
7 File transfer service is an example for connection oriented service	7 Telegram service is an example for connectionless service
8 Implementation of connection oriented service requires a virtual circuit subnet	8 Implementation of connectionless service requires a datagram subnet
9 Connection oriented service uses TCP (Transmission Control Protocol) protocol	9 Connectionless service uses UDP (User Datagram Protocol) protocol
10 Connection oriented service interface is <b>stream based</b>	10 Connectionless service interface is <b>message based</b>
11 Connection oriented service protocol(TCP) makes a connection and checks whether message is received or not and sends again if an error occurs	11 Connectionless service protocol(UDP) does not guarantee a message delivery
12 Connection oriented services are: 1 Reliable message stream Example: Sequence of pages 2 Reliable byte stream Example: Remote login 3 Unreliable connection Example: Digitized voice	12 Connectionless services are: 1 Unreliable datagram Example: Electronic junk-mail 2 Acknowledged datagram Example: Registered mail 3 Request-reply Example: database query

### Interfaces and Services

- Interfaces and Services is a process that generally provides and gives a common technique for each layer to communicate with each other
- The interface is one that defines primitive operations and services that the lower layer must follow while providing service to the upper layer. It is a way through which the message is transferred from one layer to another layer
- Service is defined as a set of primitive operations. Services are provided by layer to the layer present just above it. It is a set of actions that a layer provides to the higher layer

**Service:** It is a set of actions that a layer provides to the higher layer