6.Presentation layer 5.Session layer, 4. Transport layer 3. Network layer

7.Application layer

2. Datalink layer

Session layer provides the service to presentation layer

5. Session layer

layer

Functions such as Multiplexing, Segmenting or Splitting of the data are done by transport

Other services of the transport layer are: broadcasting of messages to multiple destinations

layer and to the users of the network

The transport layer also determines what type of service should be provided to the session

data into smaller units and pass these to the network layer

The basic function of the transport layer is to accept data from the session layer and split that The transport layer is a true end-to-end layer, all the way from the source to the destination

Transport layer provides the service to session layer

4. Transport layer

It deals with congestion control & quality of service

It decides by which route the data packets should transmit

to destination

A key design issue in network layer is determining how data packets are routed from source

It acts as a network controller

The network layer controls the operation of the subnet(Internet)

Metwork layer provides the service to transport layer

3. Network layer

It keeps track of the speed of the data transmission in the network

Datalink layer deals with error control, flow control, error detection and error correction

Transmitting and receiving data frames sequentially is managed by datalink layer

Datalink layer splits the input data into data frames and transmits the frames sequentially

> The task of the data link layer is to transform a raw bits of data to the network layer

Datalink layer provides the service to network layer

2.Datalink layer

and the physical transmission medium, which lies below the physical layer

Design issues concerned with physical layer are: mechanical, electrical, and timing interfaces.

It converts the digital/analog bits into electrical signals or optical signals

➤ Voltages and data rates needed for transmission is defined in the physical layer

The physical layer is concerned with transmitting raw bits over a communication channel

Physical layer provides the service to datalink layer

Physical Layer is the lowest layer of the OSI /ISO reference model 1. Physical Layer