study time

Subject DCN.

Date: 14/08/20

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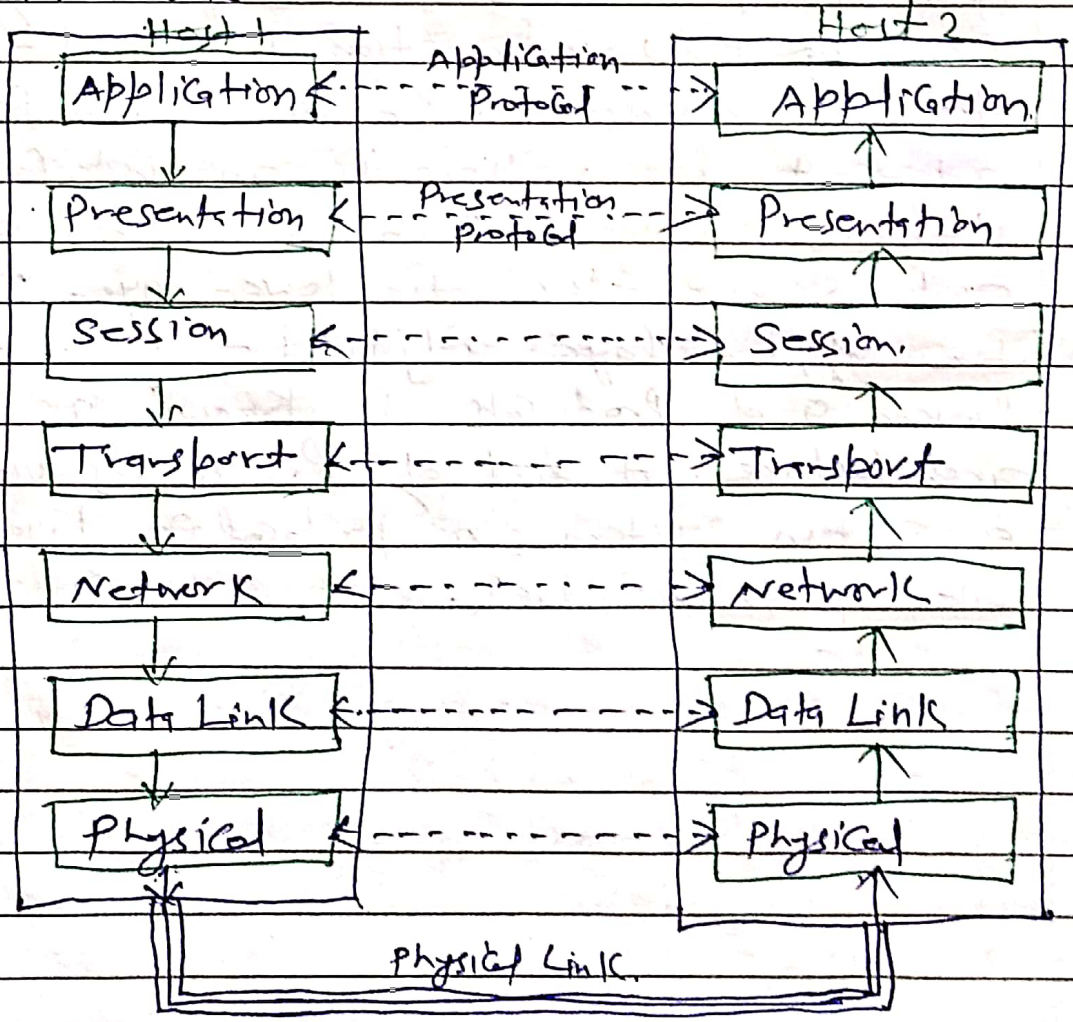
OSI Reference Model

OSI model is a set of Protocols that allows any two System to Communication regardless of Architecture. The Purpose of OSI model is to show how to Communicate b/n different without requiring changes to the hardware and software. It is model for understanding and designing framework for the design of network System that allow to Communicate b/n all types of Computer systems. It Consists of Seven related layers, each of which defines part of the process of moving information across a network.



OSI Reference model

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The open Systems Interconnection model has Seven layers:

Application	7
Presentation	6
Session	5
Transport	4
Network	3
Data link	2
Physical	1

Seven layers of the OSI model

Physical layer: * Physical Layer is used to transmit bit over a medium to provide mechanical and electrical specification.

* It Provide the transfer medium Such as Gble
* Used to define the voltage and data rates need to Complete the process of transmission.
* This layer is used to Convert digital bits into required electrical Signals.

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Data Link Layer: * The main function of data link layer is synchronization and error control for the information which are required to transmit over the physical layer.

* It is used to organise bits into frames in order to provide hop to hop delivery.

* Construct data frames using appropriate format as per accordance of given networks.

* Examine device address and acknowledge receipt of the frame.

Network Layer: * To move the packet of data from source to destination in order to provide inter networking.

* Route the signals through various channels to the other end for the resequencing of packet transmission when needed.

* Determine the network path on which to route the given packet.

Transport Layer: * The work of transport layer is to ensure that data is sent and received in the same order.

* Ensure reliability of packet transmission from node to node.

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* It monitors the packet transmission errors and resent the damaged form of packets.

Session Layer: * Session layer initiates the communication links for the transmissi

* It Controls logging ON and OFF, user Identification billing and along with this the session management.

* Determine which node transmits any point at that time.

Presentation layer: * Presentation layer performs the function of data encryption

* Perform the function of data Compression.

* Transmission data to a format the receiving node understand.

Application layer: * Application layer allows access to network resource present.

* Enable Sharing of remote drives and printers.

* Provide files transfer Services and file management Services.