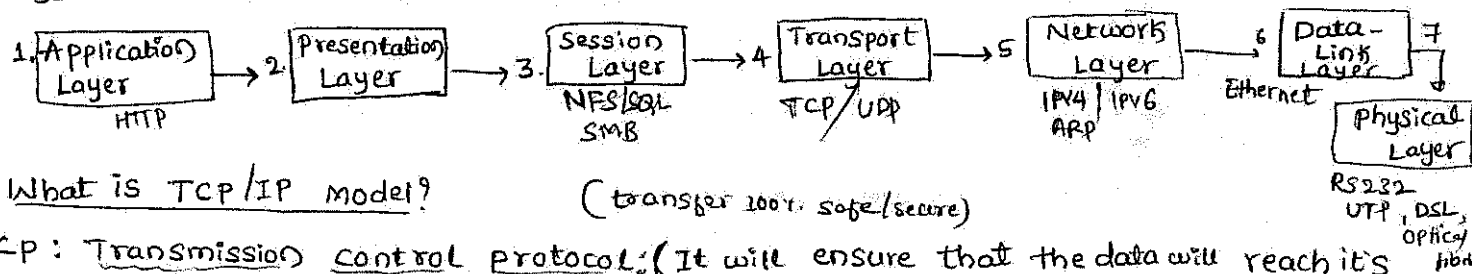


01> What is protocol? (a set of rules or procedures for transmitting data between 2 electronic devices)
 → The Rules that are set up by people how a particular data is being send.
 Ex: TCP, IP, UDP....

02> What is OSI model?

→ The Open Systems Interconnections (OSI) model describes 7 layers that computer system use to communicate over a network.



03> What is TCP/IP model?

(transfer 100% safe/secure)

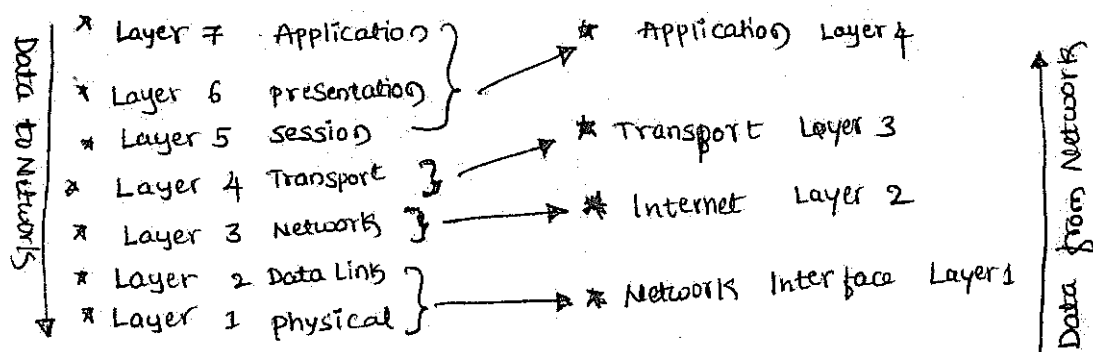
→ TCP: Transmission Control Protocol: (It will ensure that the data will reach it's destination and not get corrupted on the way).

UDP: User Datagram Protocol: (when you don't care about 100% data). (video conference)

HTTP: Hyper text transfer protocol: (This is being used by web browser).
 The data being transferred between clients and servers.

IP: Internet protocol: set of rules, for routing and addressing packets of data so that they can travel across networks and arrive at the correct destination.

04> OSI model V/s TCP/IP model



05> What is http and https and SSL?

→ HTTP: Hyper text transfer protocol: (This is being used by web browser)
 * The data that being transferred b/w clients and server.

HTTPS: Hyper text transfer protocol Secure (It is an extension of HTTP, it is used for secure communication over a computer network. & widely used on the Internet).

SSL: Secure Socket Layer: is a protocol for establishing secure links b/w networked computers.
 Its current iteration called TLS (Transport Layer Security).

06> What is encryption & Decryption?

→ encryption: process of translating plain text data into something that appears to be random & meaningless (Ciphertext)
 Decryption: process of converting (Ciphertext)/encryption back to plain text.

07> What is DNS? → "Domain Name system" → (turn domain names in to IP address, which browser)

08> Router → A router is a networking device that forwards data packets b/w computer networks.
 09> ISP: Internet Service provider → Router will decide who requested it & forward it. Provides Internet connection & services to individual & organisation.