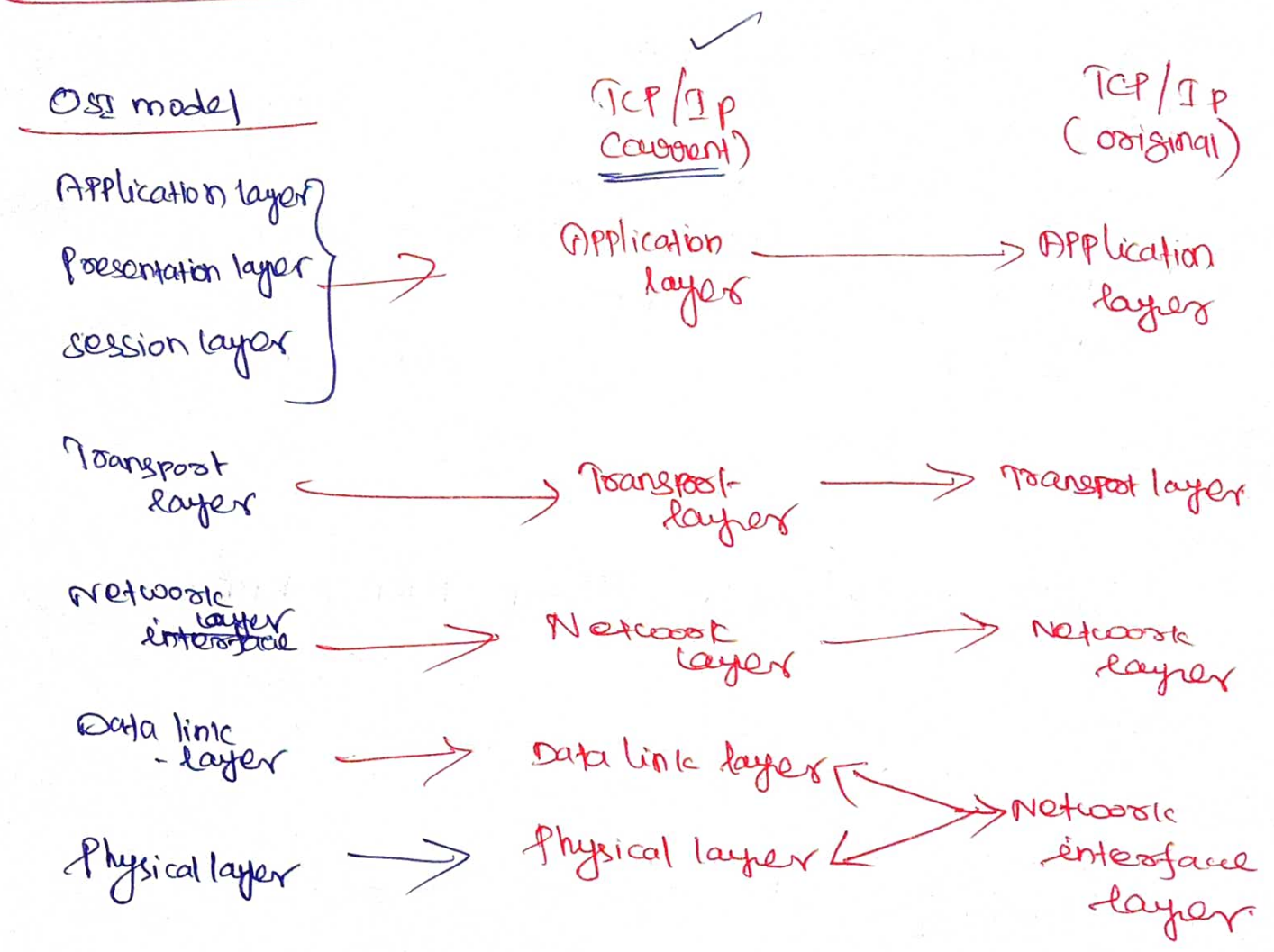


TCP/IP - Model

[Transmission control Protocol / Internet Protocol]

5 layers Protocol Suite:-



Initial $\text{\textcircled{4}}$ layer. \rightarrow

- message \leftarrow Application layer \rightarrow specific address
- Segments \leftarrow Transport layer \rightarrow Port address (16 bit)
- Packets \leftarrow Network layer \rightarrow logical address (32 bit)
- Frames \leftarrow Data link layer \rightarrow Mac address (48 bit)
- bits \leftarrow Physical layer \rightarrow

Protocol:-

Application layer } → SMTP, FTP, TELNET, DNS, SNMP

SMTP - simple mail transfer protocol

FTP - File Transfer Protocol

TELNET - Terminal Network

DNS → Domain Name Service

SNMP → Simple Network management Protocol

Transport layer } → TCP, IP

Network layer } → ICMP, IGMMP, ARP, RARP

ICMP - Internet control message Protocol

IGMP - Internet Group management Protocol

ARP - Address Resolution Protocol

RARP - Reverse " " " "

Data link layer } → PPP, IEEE 802.2

Point to Point Protocol

Physical layer } → IEEE 802.3, Token Ring, RS232

RS → Recommended Standard