

TCP/IP Reference model

It is developed before OSI model.
 Contains four layers but now it contains 5 layers.

04 layer ⇓	Now 05 layer ⇓
Layer 1 → Application Layer	} Application Layer Transport Layer 4 Layer. Network layer. Data link layer Physical Layer
Layer 2 → Transport Layer	
Layer 3 → Internet Layer	
Layer 4 → Network Interface	
Layer 5 →	

Application layer, presentation layer, session layer } Combination of three layers of OSI model that is Application layer in TCP/IP.

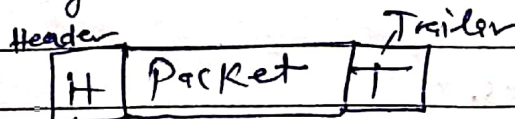
① Physical Layer: * Unit of Communication is single bit.

- * No specific protocol.
- * Communication b/w two hubs, nodes, Computer.

② Data Link Layer: * No specific protocol.

- * Communication b/w two hubs / nodes.

* Unit of Communication is frame



It contains source and destination address of frame

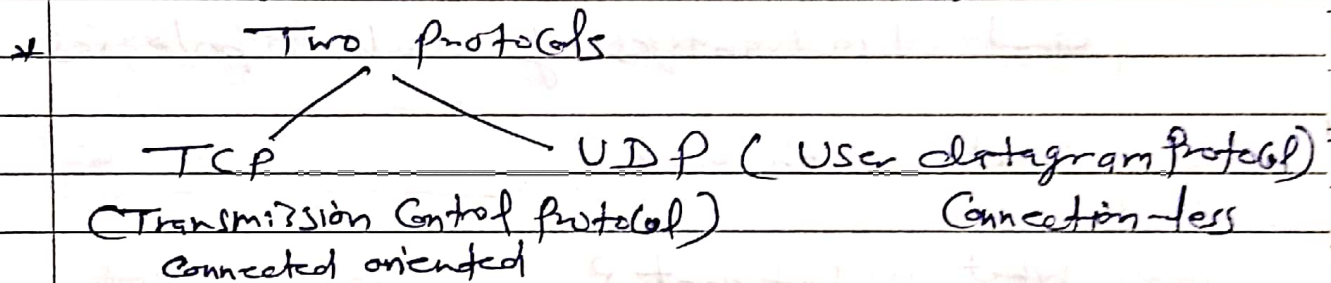
③ Network Layer: * Internet protocol (IP) is used for transmission mechanism.

* Unit of communication is called datagram.

* Communication is end to end.

④ Transport Layer: * Responsible for delivering whole message.

* Unit of communication is called segment.



⑤ Application Layer: * It is combination of session, presentation and Application layers in OSI model.

* Unit of communication is message.

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Prob 1. What is Addressing?

Prob 2. Explain Line Coding with Suitable example.

Prob 3. What is transmission media? Explain

Guided media (Twisted Pair Cable, Coaxial Cable, fiber optic Cable) and Unguided media