

## BUS topology

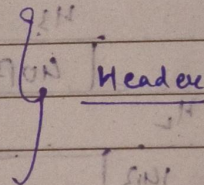
- ① IEEE 802.3 Ethernet
- ② IEEE 802.4 token BUS
- ③ Transmission by one node can be received by other that is broadcast.
- ④ Transmission is done only one packet at a time.
- ⑤ Reliable & Simple to implement.

## RING topology

- ① IEEE 802.5 token ring is based on topology.
- ② Point-to-point rings.
- ③ Multiple packets possible at a time.
- ④ Broadcast possible.

\* Data link layer: Devices like switch or bridge are used.

- ① Framing
- ② Physical addressing (MAC addressing)
- ③ Flow control & error control
- ④ LLC (Logical Link Control)
- ⑤ Access control MAC (Media Access Control)



\* Network Layer: Router is based on network layer.

- ① Source node to destination node delivery of packet or IP datagram
- ② Logical addressing: IPv4 & IPv6
- ③ Routing

Routing: BGP - Border Gateway Protocol [Inter routing Protocol]  
Distance Vector Algo.  
RIP - Routing Info. Protocol.  
Link State Algo. (OSPF) Open shortest Path first.