

Explain stop and wait flow control.

- Here transmitter sends one message and waits for acknowledgement(ACK)
- After receiving ACK it transmits next message.
- Its main advantage is it is very simple and easy to understand.
- Its main disadvantage is its speed is very slow and time is wasted.
- Here it takes twice as long to transmit data and receive ACK.

Explain Poll/select.

- It is a line discipline used for centrally controlled networks.
- Here primary station controls data and secondary station responds to instructions.
- Primary polls to secondary to determine if it has data to transmit.
- If secondary has data it responds to poll with a message and acts as a transmitter.
- If primary selects secondary, it identifies secondary as the receiver and checks if it is ready to receive data.

Explain the function of line discipline.

- Line discipline is used in the data link layer which coordinates hop to hop data delivery.
- Here the hop can be a computer or a network controller.
- It also coordinates the half duplex transmission on data communication network.
- Acknowledgement discipline is used for simple networks.
- Poll/select is used for centrally controlled data networks.