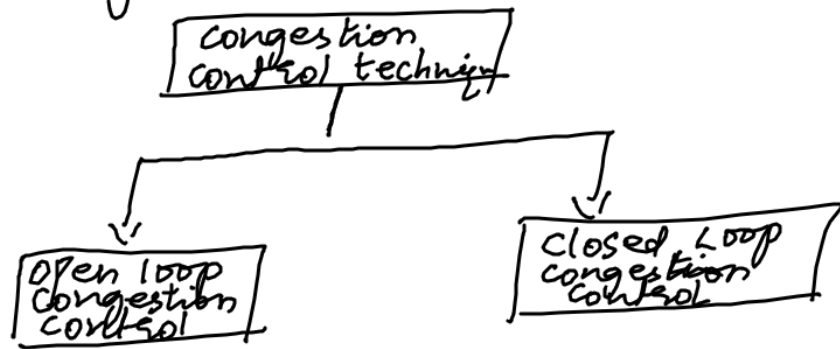


Q What is Congestion? Explain congestion control techniques?

Ans:- **Congestion**: Congestion is a situation in a network. are present in a part of network. The congestion takes place when the number of packets sent to the network is greater than the capacity of the network.

Congestion control: The congestion control is the technique used for preventing or controlling congestion.



✓ open Loop congestion control:
These techniques are used to prevent congestion before it happens.

(i) **Retransmission Policy**:
This policy is used to control retransmission of packets.
Generally, a sender retransmits the packet if he feels that the packet is lost or corrupted.
This retransmission may create congestion in the network.
To prevent congestion, a timer must be designed.

(ii) **Window Policy**: There are two types of windows that can be used at sender side: "Go-back-n window" and "Selective Repeat window". In Go-back-n window, the packets are resent which may be duplicates. Where as in Selective Repeat Window only sends lost packets.

(iii) Discarding policy: In this policy, a router can discard the packet. A good discard policy can prevent congestion control.

(iv) Acknowledgement policy: The acknowledgement policy can also create congestion. For example, if