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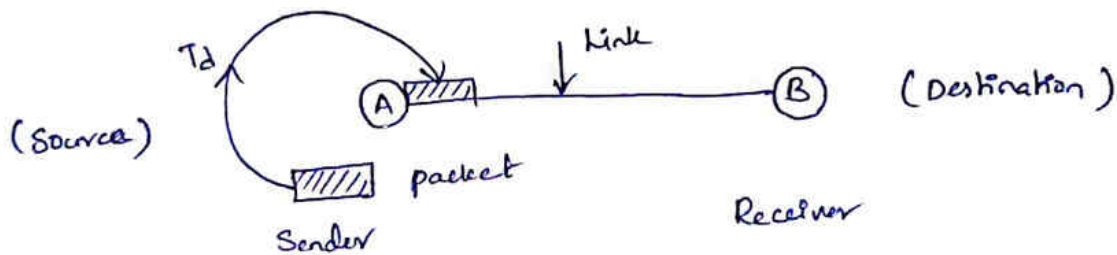
Answer

*. Solution:-

⇒ List of delay components in the end-to-end delay.

The delay components are:-

    i) Transmission delay.

    ii) Propagation delay.

    iii) processing delay.

    iv) queing delay.

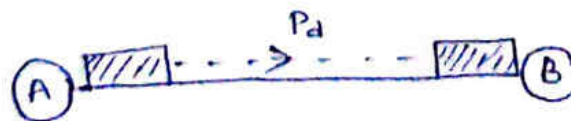i) Transmission delay:- (T_d)

Amount of time taken to transfer a packet on the outgoing link is called as transmission delay
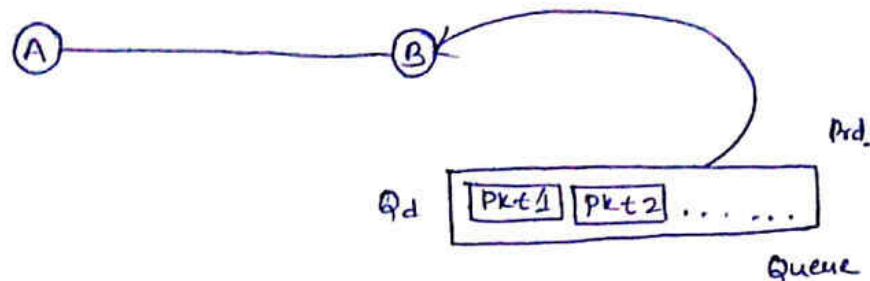

ii) Propagation delay:- (P_d)

Amount of time to transfer a packet from Sender to receiver
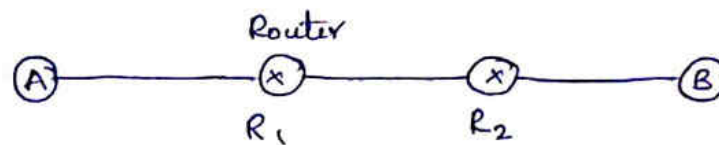
$$\therefore P_d = \frac{distance}{velocity}.$$

iii) **Queuing delay :- (Qd)**

Amount of time packet will wait in the queue before being taken up for processing is called as queuing delay

iv) **Processing delay :- (Prd)**

Amount of time taken to process a packet by the router is called as processing delay

⇒

All these delays are constant, except for the queuing delay. which are variable.

Because it depend as forward packet Execution.