

3. Given: link between RI and R2 to be of longth 10 kms.

Bandwidth of the link = 100 Gbbs.

Speed of propagation = 2 speed of light. a) Tp = longth of the line Propagationspeed. C-3×108m/557) 100000000 TIAC 31000000 $T_{p} = \frac{5}{5} \times 10^{5} \text{ m}$ $T_{p} = \frac{5}{5} \times 10^{-5} \text{ s} = 0.5 \text{ µs}$ b) Maximum number of bits that RI can send, outil the first bit sent by RI seaches R2 = Tp > Bandwidth. = 5×10 8× 100×109 698

911 19000=15×106 69/8



Lit width- length of link

Mann no og bik that can be in lik

Date

= 2×10-3 m/69+