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Answer to the auestion: 01 ID = 18101013 50 X = 3 + 1 = 4and Y = 1 + 1 = 1 2 fore mesh topology, we need {x(x-1)/2} cable link = 54(4-1)/23= 6 cable link For star topology 1 We need y = 2 cable link According to the security level I prefer Mesh topology mosting?

Fore communicate with my friend I choose full duplex data flow.

Full duplex mode, both stations can transmit and recive simultaneously. The capacity is devided between signals travelling in both devided between signals travelling in both

The big advantage of full duplex is data can be sent and received at the same time.

On the other hand the disadvantage of half duplex is, it can recive and transmit data, but not at the same time.

The most advantage of half duplex is both device can send and recive data. Whole bandwidth can be utilised as at a time only one signal transmits.

on the other hand in full depoler the bandwidth is divided so it becomes

	3 ² 7	nod 6		my s	se-is	pc3
Y = 4 mad $6 = 4$ my friend $-PC4$						
Mac of		IP O A	IP of	6000	7000	data

Both data Link layer and Transport layer performed error control and flow control.

Flow and error control by node to the node or hop to hop. It works in it's own & network.

on the other hand transport layer works at sender to reciver. It work at the whole network cheacking

Mainly the checking occurs at data link layer most of the time. So transport layer can't get any error.

first, we use the snannon formula to find our upper limit.

$$0 = 4 \times 10^{6} \log_{2}(1 + 20)$$

=17.569 Mbps

Then useing the Nyquist formula to find the

number of signal levels.

thow much data is successfully transferred from source to destination, and band width is a theoretical measure of how much data could be transferred from source to destination.

Throughput measures speed while bandwidth is only indirectly related to speed.

No throughput can't greater
than bandwidth because it's works
with actual measure, so occurs
some loss. But bandwidth is
some loss. But bandwidth is
a theoriefical measure of bandwithd
so it's high.

Anwer to the Question not 04 (0) Herre, X is = 3+1 = 4 = 1+1 = 1 bandwidth = 4 MHZ SNR = 10 X 2 = 20 firest, we use the snannon formula to find our upper limit. C = Blog2 (1+ SNR) = 4 × 106 log 2 (1 + 20) = 17 56 9269.69 =17.569 Mops Then useing the Nyquist formula to find the number of signal/leveils 17.569 = 2/X 4 x log2L Reseat → 2.196 / log2L => Log21 / -3 1092 L = 2-196 m 1 = 2 , 1016

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