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Semester: 3.1

Course Code: C5t 303

Course Title: Data Conjunication

D: 18101038

Date: 25-08-2020

## Ans: to the que no-1(a) P-D/

ID = 18 10/038

Here, 
$$X = 8 + 1 = 9$$

For Mesh topology,

node = 9

$$-$$
 Link  $200 = \frac{9(6-1)}{2}$ 

= 36

For star topology.

We know that no of computer = no of link

so link will be 4.

If I have to choose between mesh and Star topology I will choose store toporto topology. Because each of the nodes is independently connected to the contral hub, Should one go down, the rest of the network will Continue functioning unaffected, making the Star topology a stable and secure network layout.

Half duplex

Advantages: Whole bandwith can be utilised as at a time only one single transmits

Disadvantages: other device cannot send data Until it receives the data which is already & in transmission.

Full duplex

Advantages: The speed of full duplex 15

Dis Advantage: No proper bandwith wtilization

....Time

## Ans: to the que no-26)

P-04

ID = 1810/038

De

MAC

MAC

IP.

e ep of

7000

DATA

trailer

MAC 1

MAC

Pof

6000

7000.

DATA

trailer

920

r30

MAC MAC

0

Pof

D

LOVO

7000

DATA

trales

Error Control: Error control is normally achained when a trailer added to the end of the frame Data like layer add a exercise control mechanism to detect and retransmit damaged or lost frame.

In transport loyer- Flow I control: It control
the amount of Lata being transmitted. Flow
control at this layer is performed of end to end
rather than across a single link.

Error control: Error control is also performed in this layer process to process rather than across a single link

Ans: to the que no-3 (4)

P-08

70 : 1810/038

Y = 38

The loss in the cable 13 (38×60.3)=11.426

$$\frac{1}{2} - 11.4 = 6 10 \log_{10} \frac{p_2^2}{p_1}$$

$$= -1.14 = log_1 \cdot \frac{P_2}{P_1}$$

$$P_{i} = 0.072$$