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Dosne ? Misuat Africa Zimman

Seation : A

Serverters: 185

7 eaco 0 3000

Course Code : CSF 303

Course Tittle : Data communication

and party whom we would to be

Date: 25, August 2020

Ans to the orues no 34

 $\lambda = 3+5 = 3$ $\lambda = 0+5 = 5$ $\lambda = 0+5 = 5$

Here, $SNDR = 10 \times 4 = 40 \quad 10 \times 4 = 40$ Bardwedth = 1 FMHZ

Nous,

 $C = B \log_2(2+8000)$ $= 106 \log_2(2+90)$ $= 106 \log_2(2+90)$ $= 106 \log_2(2)$ = 568 5.4 mbps.

The shannon fonomula 39 ves ces

5.4 mbps, the upper limet. For
better penfonomence are, choose somethire
tower 4 mbps.

Salar Maria

then we use the Nyquest forward to

400000 Bit make = R* bandwidth * log_2 L

note 400000 = 9* 1mH $\frac{1}{2}$ * log_2 L

L = 64 4.

(b)

Bandweidth	throughput				
Demourant is theoretical measure of how moch deta could be transferred from source to destate theoretical could be transferred to the source to destate theoretical conformation.	D'thnughput is an actual measure of how much data is successfully thomsterned from some source to destination.				
3) that agh It measure speed.	(3) It measures only measures indirectly related to speed.				
9) It sous consensed of the points of the po	bits pen second				

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· con throughout be gonestern these boodceleth o 01 * 6 Hall 15 29 1/61 20

No. innoughpul coo't be oneated than basacreedth.

Throughput can only seed as much as the bandacidth well account and 9t's usually less than basidue ath. some of neason or some factors that neeve the overell thoroughpe

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A TON ON THE REAL PROPERTY.

The man to the second of the second of

CONTRACTOR AND

AND SOLECTIVE

Ans to the gues no 103)

Hene, my ID 98 28200036

$$y = 0 + 2 = 1$$
 $y = 3 + 2 = 4$

for mesh topology,

we need, at 006

25(2-1)/2 J = 1 (2-1)/2]

ue reed 0 capie lear for mest

topology.

And for source are topology are need, y = 4 cable cone,

I would take to prefer smare topology:
because there Is a control to

bonacese there is a control had hob. so each of the modes cros startion independently connected to the control hom. If one mode or the control hom. If one about or the network with functioning. Bestales, start topology is more secure than and secure next of the secure than most topology. It's stable and secure Network layout.

(b) 3'11 choose fall suplex sata from

for oney communication.

Decause so this communication

the sended and necesse can both

thansonities and necesse at the

3 some final. It's thansonission oneso

is like a two asay no and.

which thanks is can flow in both

direction at the same time.

Advantage of full duplex;

- · No deley in communication
- at the score time.
- · Fasten throughut speed

oisabrondage of full Euplex.

· No prespose bondardath

Advantage of half duplex:

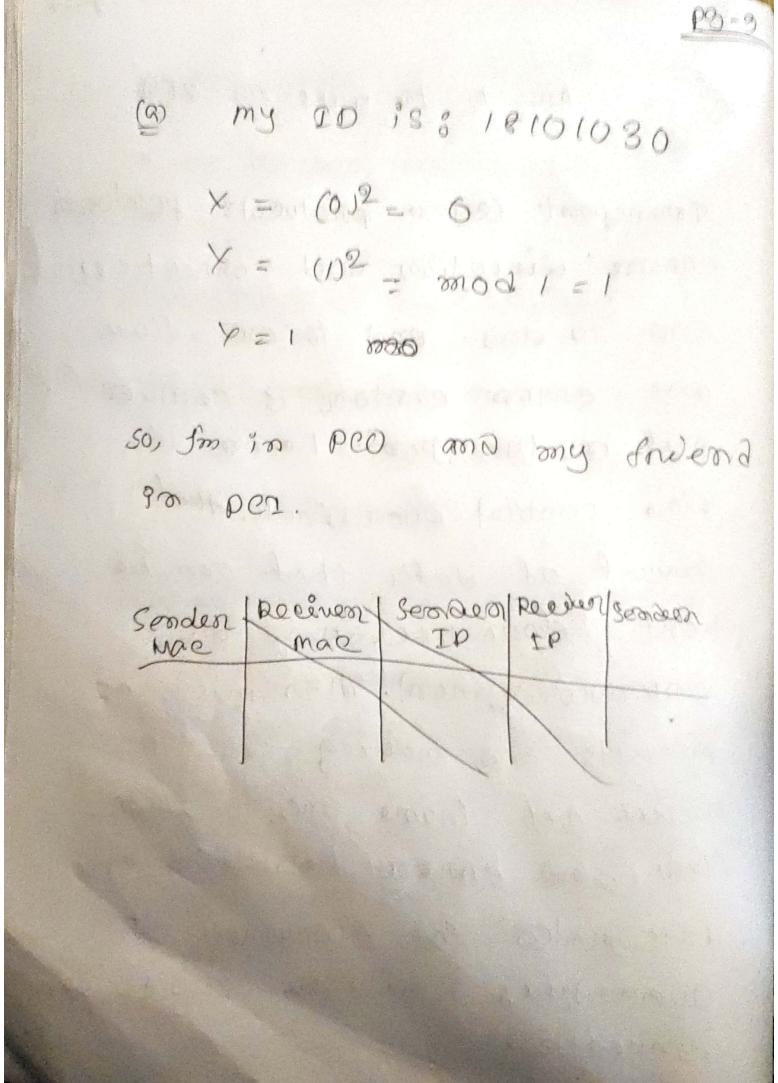
as at a time only one Signal tressonets.

dis advantage of half duplex;

- . Delen communication
- eata until it needies the sala which is already in the transmission.

Ams to the orule no-2(b)

Inansposet layers priotocols pendonon ennors Rinection and connection end to end end to end, slow and ennon conton is cannied out in transposed 1 evero. Flow Control Coordinate that amount of data that can be Sent before necessing an 9 conknowledgment. Torgonsomissio as packets and malieng some the packet get snome one to other flow and ennon handling ane ittegrated for convenieur. It guarafelles « religible end to est connection.



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