MID TERM

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(frisings)

Name: Mubina Tarcamum Mollika

1D : 18101006

Section & (Azzille

Semester : 300 1st

year 3rd

Course code : CS£303

Course Title: Course Title?

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181862 . 100 X 1092 F

Node n=187 07(7-1) ton link neede in mesh topology hered

2 moon 2

for a securce network , between Mesh and stars topology, Mesh topology un le morre secure. Because in I mest topology, we every node is connected to another node with a dedicated link. So, it's more secure than Staro topology.

Ans to the gues no-1

half duplex & data connection is, behave the way data communication is possible but not pat a same time. full of duplex is where Communication is Simultaneously. Azzar in baben

So, I'm communicate with my friend using full duplex data communication. AMANARA Advantage disavantage Whole bandwi- cannot communicate Half duplex 2th can be sendere & receivere a time to the last single time 2 fall Luplex It can Ho bandwidth send & of not properly receive dota used at a time at a time 512000 151 Buch mag 100 100 100 100 100 700 100 0ta Te \$ 2299000 hre [5] Ato a poof Jood Page - 3 190 5000 property

broid pri Ansi to the ques no-2 neither incommon atab xilgub llub. Costu PCO Provosib Y = 1
PC1 - Frank A sprokery with whole tounded - common format alorente Hall duplex 144 carre be sendere & riccivere enit algris 100 100 Data mit is Waldup Int (Affinhand The Seving the state of the state o used at a time for 1st processing to MAC MACTIPA IP 6000 7000 Pata TZ for and process ; MAC MAC IP 12 648 6000 7000 Data

MAC) IP IP of 6000 7000 Data T2 2 (b) god of god month -10-9 to gai & twog An: - Transport layer also perform erron control & flow control are data link layer. Transport layer send message from one port process to another process.

Send message

Data link layere works for one hop to another. Transport layer deliver message from input point to output Port. & Fransport layer alos Data-link take erchore control

hop to hop. But for ordput mont & input port error control, port to wood transport luger in words forther forthor money as data link layers. Trangers layer sind messinge from one perot proress to another process.

Link layers Gents for one hop to another. Inconsport layers deliv mossinge from input points its entp ters the forest of the said pata-link take enclose control

Ans to the ques no- \$4

6+1 = 70+1 = 1

Bondwidth = 7 MH2 = 10×1 = SNR

tore Shannon torrnula,

capacity, c = Blog 2(1+SNR)

= 7×106 × 1092 (1+10)

7×106×3 7×106×3 7×106×3

wo of Albiart and y Mbps will.

men we use wo Nyquist formula

16 Mbps = 12x 7 MH2 x log 2 L

 $\frac{16 \times 10^{6}}{2 \times 7 \times 10^{6}} = 1092$

in was of sell F. . . F. 1- 9 . - X L - 1.10 = Y Bondwiddh = 7 MH2 OE = LXUT . AM2 4-(6) bondwith is diffrence between higher frequency & lovers measure while throughput wish an actual measure of, (6 h h) is much o data is formest Source to destination. Other On the other hand bandwidth is diffrence of lower prequency which means I show simuch x south you an be fransterned from Source page-8

destination. Throughput measure speed but makes bandwidth is indirectly related to speed, it makes internet fasters on slowers. But throughput can't be greater than bandwidth.

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