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course code: es E 303

Reg NO- 1810/014 uMID exam

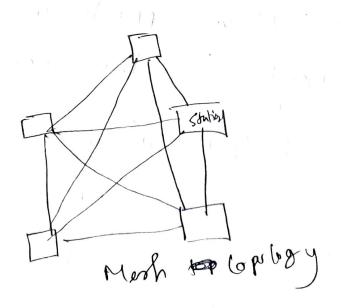
Roll - 14

Ans to the gNO-1

INJ ID is = 14.

Ing ID is = 14. ten, x = 4+125 7 2 1 +1 = 2

For Mesh boology I have 5 computers for like. Mesh topology Means Dedicated point to point link to every other noder, and for Mesh topology with n noder I wo need n(n-1)/2 links SO, I have 6 computer so, for 5 computer I 5(5-1)/2 = 10 links. nead



Fof of I have 2 PC and I need to connect it with Itan topology. In star topology a Hub is need and pe on dievices are connected with the to hub point to pointly and. In star topology I need no a links Jon Maintain it. so for 2 komputer i ned Sorly a links. it I need to choose between this two network for more security. I object obviosly choose Mesh topology. Cause there are more compas

Mesh topology. Cause there are more completed with single hub so if which has commeted with single hub so if which has some problem of the hub has some problem the hole network will champened.

Ans to ten g No -1-6

Data flow: - to Data flow means the direction of Data.

Half Duplex: - if there are two devices for communication. Both transmit and recive com be possible. But not at the same time. if one Devices is passing Data that other have to wait for spectreing Data. And after it finishes teen the other can stant.

50, Half Duplex. advantange: 11 easy to communitation.

2. Chap in erst.

3. Data redumption will not happen.

disadvandage: a. walkie - talkie, CB radio.

1. not - 1-10 long distance.

2. Data redundancy con roppen.

toll buplex: full duplex can communidate and transmit and recive simultaneously.

Like atwo way street. like telephone. advantage: 1. both side can communitate simultaneously. redundancy can 2. Data flow and not happend. 11 devices car are cost move. 2. it connetion is slow Data How kan be top hampenel.

Anstotu 9 NO-4 Ce

Henry,

x is the last DigitatDSU 4+1=5 Y u ~ 2nd u ~ 1+1=2

Band width x = 5

 $SNR = 10 \times 2 = 20$

to find our upper timit.

C = Blog (1+5NR) =5 \$10x log (1+2)

= 9× 106 × 10923

= 4515 449.935 bps.

2 4.515 MbPS.

Hun we use ten nyquist formula totinel the number of signal level. 6 MBps is the upper Limit. for better penformence we khoose somtling law Like gmbps > 2 MbPS = 2x 5M172 x 10g 2 => AMBPS = 10MH+ X log2

0.40 = log2

Band with:

- -) it measures network penton nomble

 Thuo different measuring values. bordwith inhors

 2. Band with inhis

 pen sec.

 That in heatz is the range of frequency
- =) bandwith can also refer to the number of bits per second that a channel on a network can transmit.

throughput: -) It is measure of how fast we can actually send Data through network

- -) Band with in bit pen seond and thoughpu are different.
 - -) the Bandwith to a potential measurement

of a link the throughput is an actual

measurment of now fart we can send derta. Ansto tue QNO-2 MY ID 13 = 14 X = (4) mod 1 = 16/6 7 = 4+1 mol 6 = 5 Im in DPRA and my friend will be Dota T2

Anyto Lugwo- 26

In Data Link layers - 17ths one of the Duty
is to flow control and one of the
is error control.

flow control: if the vate of which Da are absorbed by recieven is less than the rate of which data are produced inthe sender.

Error control: adds reliability to the physical layer by adding Mekhinism to detact and retransmitton to last frames.

There show are also penformed in this show are layer.

like as pata link layer transport
layer is responsible for flow control flow
control is penthormed end to end rather
then across a single lik.

* Error control at this layer is penformed process to process rather than accross single link.

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