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Roll: 20

Јеоп: 2020

Semesten: Spring

Coune Code: CSE-303 (A).

Course Title:

Date = 25-6-2020

Troubert total

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Parent Service

ANS TO The Q No: 1

a a man and and

Fon mensh network

number of links =
$$\frac{1}{(1-a)/2}$$

= $\frac{1}{(1-a)/2}$

FOR MORE BECURE NETWORK & will prefer mesh network.

In mesh network every node in connected with each other. So If we want to transmit data from one node of to another we can directly send that there is no intermi other medium between that two nodes. A

Bits advantage :

In stran metwork all the nodes are connected to a hub and hub acts as a controller, so no direct transmission between modes. So If the hub is connupted then we can accept any node.

So, I ment topology in mone. Seeane among ment and start.

Half Duplex:

Advantage:

a The entine channel capacity can be used by o one device.

Dis advantage:

we can not communicate orimulament simultaneously that means of a device can not rend and neeve data simultaneously. a if use use half dupleze.

Advantage:

Devices or can send dat and
Theeive data simultaneously. That
means a device can send data
means a device can send data
and the same time.

Dinadvantage:

10 nowless 0

The channel capacity must be shared between devices.

hom B. A for mouth gr

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2 NO QLANSIO NOT Advortage: JD: 18101020 10 desired $X = (0)^2 \mod \mathcal{E}$ meaning a device of Y= (0+1) mod 6 ovison bros Disadvantage: Port address of X = 6000 Port address of Y= 70,0000

From PC A to nouten 100 Mouten O

From PC A to Mouter of MAC of mac of IP of IP of 6000 7000 Data Trailor A 1700 A PPA 6000 7000 Data Trailor From Po A to From nouter o to nouter 1. MAC of MACOS IP of JP of 6000 7000 Data trailer From nouter 1 to PC 1 MAC of mac of Ip of Ip of 6000 7000 Data traden.
MJO PC1 A PC1

<u>b</u>

In transport layer the data in transport from process to process. And In this layer. Erron control and Flow control are also performed.

In Data link layer the Nota in transport from hop to hop so the flow and error control are performed in a sing aeroom a right link.

In themsport layer the data themsported from process to process. So. the forflow and Emon control are performed from end to end hatten than across a single link.

3 NO Q'. ANS! will phonge randide will col loss in the cable = 20x -0.3 12+ 1000 m b=1-6, dB) 10 log , P2 = -6

10910 P2 = -0.6

=> P2 = 10-0.6 x 2m w

Now,

(and H) = 10,5 m w (ANG)

in myrung oil reade . But pake

2 cpol x nll. wil medixe

and nothernoon contradict feet moul

lovel the state the sore!

In the Shapmon capacity the capcity, -c/= Band width x box 10g, (1+5NR) 6, from April in Marint dat. bitRate, / BitRate = 2 x B

In shannon capacity the capacity G= Bandwidth x log_2 (1+ 5NR), and in Nyquint bit reate Bit Rate = 2xBondwidth x 1092L.

from bot sharron equation we see that we don't need the level of the signal. We need bandwidth and signal to noise matio. So

It gives the upper, bit limit

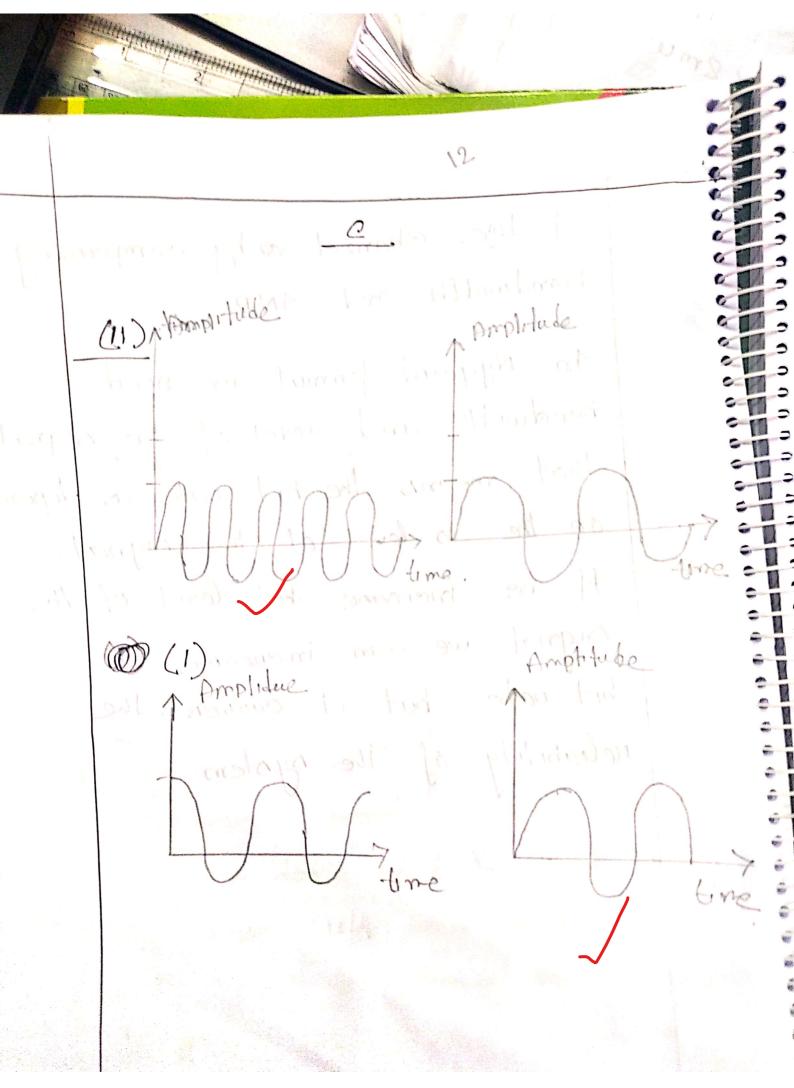
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of the channel sor by comparing bandwidth and SNR.

In Nyquist formul we need bondwidth and level of the signal, that means the bit note is depend i on the bolevel of the signal.

If we increase bit level of the signal we can increase the bit note but it causes the releability of the system.

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