31

Mid Semester Exam Spring 2020

Name: Murshid Jamil Kibria

ID: 17101128

Semester : 4th year 1st semester

Course Code: CSE 303

Course Title: Data Communication

Date: 25.08.2020

Section: A

### Answer to the question no-1 (a)



My id is 17101128

de de indX is sta8+11=9/polaris de

1 1 1000 mg 1 15 1= 2+1.=3000 mon il postarile

Forz mesh tropology which is implemented in x=9 computers, there will be n(n-1)/2 links needed.

2 2 x8

19:107. It is now could like to this 312 3611 - 30 x 100 15 3000

For mesh tropology which is implemented in Y = 3 computers will needed not complinks.

so; the total links are = 3

so total links a forz x moom and my room are 36+3=39 links.

mesh tropology.

Between star tropology and mesh tropology star mesh tropology is more secure. So, I prefer mesh tropology for a secure network connection. I prefer

In mosh tropology, every device is connected with such others. So, if one pc is contrying to communicate with anothers pc, it will be an one to one communication between them. So, there is a There will be no median between them to control the data or data flow. So, it is more secure. That is long I will choose mesh tropology for a secure onetwork.

Server stat 1 the site ion

. Shall were the bedoom the pring were E. Y

in the control of the delication

# Answer to the question no-1 (6)

The one advantage and one disadvantages of for each of these two data flows are given below:

### Advantage:

example: Walkie-talkies.

simunteniously as then tall it is best to choose tall dupler. example: Telephone conversation.

#### Disadvantage:

thatf duplex can not nesset receives and sends death

Full duplex can not-communicate with each other is if there is no dedicated path.

4

### Answer to the question no - 2 (a)

My id is 17101128

Here X = is = (8) mod 6 = 4

Y is = (8+1) mod b = 8

So, in my case the communication will be done through between pey and PC3 where sender is pc4 B (me) and receiver is pc3 (my friend).

senderz Mae	Receiver Mac	sender	Receiver I P	Portno Jur sender	Port of Reciverproc	Data	torni lorr
Mac of E	Mac of 1640			6000/		1	trailer
MacofE	mac of 1140	,	IP of D	6000			trailen
	1 Mue of R31	l .	IP of D	6000	7000	1 7	trailer
Mac of 1241	Mac of 1239	IPOJE	ILAD	6000	7000	L .	
Macof 123	0 mae of D	IP-SE	IP of D	6000	_		, , , , ,
	1		16,13			Data	traile

2

# Ansver to the question no-4.

SAF My ID is = 17101128

.'. X = 8+1 = 9 MHZ = 9000 Hz Y = 2+1 = 3

.. SMR = 10 x3 = 30

Bit Rate = 2 x 9000 x (1+30) log (1+30)