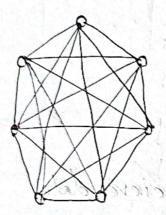
Name: Sheikh Tanvin Inzamam ID: 11201036 Course code: CSE315

30,2010 211 First page

Ans. to the ques no. 1 (a) many or and polono mis

$$X = 6 + 1 = 7$$

$$y = 3 + 1 = 4$$



(a) I cop of a super start

Stan topology spokerskil

1. E. IL device's ear isend four

mesh topology of most topology = 7(7-1) = 21

number at links for star topology = 4 pologies for a more secure networks, mesh topology will be preferred.

Reasons: 1. There is no trabbie problems in mesh topology. 2. Fault can be easily identified in mesh topology and have isolution.

and how isologon.

11201036 Page 3 Full-duplex modeit mil and his also it its Advantages: 1. No delays in communication as both ean send same time. and recieve the data at the Disadvantages: 1. No proper bandwidth utilization at I as the some line is used for sending and receiving alata at the same time. (0) 1) on our ap of wall Ans. to the ques no. 2 In transport layer, error control is also performed like data link layer. The sending transport layer makes sure that the entire entire menage armives at the recienty transport layer without ermor (damage, loss or duplication). Ermor correction is usually achieved through netransmission.

	11201036
	Page 4
	Like the data link layer, the transport layer is responsible for flow control thowever, flow control responsible for flow control thowever, flow and har
- 4	at this layer as Past so was more or
	1 Marc 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	即回回 图图图
,	host-to-host delivery
-	Process to - process delivery
	1 4 the ares no. 4 (a)
	Bandwidth, B = ODD) X MHZ = (6+1) MHZ
NY.	Ly and only in loughout WHS who fandsmoot
	Little of the strong town and land and
	Signal 4. 100 1 200 100 100 100 100 100 100 100 1
1	Marion Jones J. (nois) osistque 2 4 - 1 190 mos sonos

11501036 11201036 Tage 6 Page 5 Bit rate = 2 x bandwidth x log_2 @= B10g2 (1+SNR) 110 mm $= 7 \log_2(1744) \sin^2 \theta$ $= 7 \log_2 5$ = 16.25 mbps = 16.25 mbpsW 104 = 121 X 7 X 109 2 Lindows T Will In the >> log, L = 1 is for example, we direct house a lite of ? Note: Calculator unavailability ends De Kope. This week down our const and over them 200 hope through the first The state of the s with the

Ans. to the ques no. 4 (6)

Difference between bandwidth and Hmoughput.

1. Bandwidth is a potential measurement of

a link. But through is an actual measurement

at how fast we can send data.

2. A link may have a bandwidth of B bps, but we can only send T bps through this link with Tawlay always len than

3. For example, we tonay have a link with a bandwidth of 1 Mbps, but the devices connected to the end of tink may handle only 200 Kbps. This mean that we can't send more than 200 kbps through this link Ares. to the ques. no. 2

(a)

$$X = (6)^2 \mod 6 = 36 \mod 6 = 0$$
 (Pe 0)
 $Y = (1+1) \mod 6 = 7 \mod 6 = 1$ (Pe 1)

1 1 2		44	3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Sender MA e	Reciever MAC	Sender	Reciever	al	Port no.	'	Trailer
MAE d- Pea	MAC & 800	IP of Rel	IRA ROO	Process 80: 600	Rocers 0 80.00	v	
MAR of ROS	mae of Pel	1Porroz	IPHPE	80:6020	40 80.2		

6 Lettendeter moundatility