Department of Electrical Engineering Mid – Term Assignment Spring 2020 Date: 13/04/2020

Course Details

	<u>Course Details</u>								
	ourse								
Student Details									
N	ame	Anees Sheer Student ID:11743							
Q1.	(a)	1							
		4 is the collection of all the component frequencies.							
Q2.	(a)	 How are frames different from packets? Explain with examples. A phone line being analog can we send digital data on phone lines? Support your answer with examples. Give some details about fault tolerance, which network topologies have fault tolerance capability? How is logical addressing different from physical addressing? Support your answer with examples. A local telephone company wants to connect the LANs in all its offices throughout a city. For this case which network category would be used? 	1						
Q3.	(a)	Consider the following network, how many hops will it require for data to reach from node A to node J. Intermediate System Intermediate System A Intermediate System Intermediate Intermediate System Intermediate System Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermediate Intermedi							

(b) A Sine wave has a frequency of 135 Hz. What is its period?

Marks 02

		CLO 1

Q1 <u>Fill in The blank</u>	0
 Ring Protocol. 	
 Realibility digital to analog 	
O Data Link. O Physical O Data Link.	
O OSI O Mesh	
(g) Mysterious	
 56.6,33.6 Jo links 	
1) Transport. B Rectition	
19 7 requency	

2 Q210 How are Fromes different From Pockets ? Explain with example? And The difference between frome & pockets is that Frame is The serial collection of bits. & it encapsulates where as Packets are the tragmented trom of data & it encalsulates Segment. Data Cink Layer Performs Froming Process. @ A Phone line being analog can we send digital data on Phone lines? Support your answers with example. Ans computers transmit digital data expressed as electrical impulses, where as phones transmit voice frequencies as anoby Signals. To transmit digital data, the sending modern must first modulate, or encode, a computers digital straignal into an analog fignal that Can travel over The Phone line. Example: Digital Telephony sending High-speed para over Phone lines. New Communication systems are overwhelningly digital, anolog is Slowly on its way out. These fore local releptione companies may offer some or all of these digital services you can recommed to your customens. 3 Give Gome detail about fourt to lesence, which network topology have foult tolyence capability? Any Foult tolerence is the property that enables a system to Continue operating properly in the event of the failure (one ore more faults within) some of its component. Mesh topology have

multiconnections, making it the most foult tolerant to Pology available. Every component of the network is connected directly to every other component.

3

(G) How is logical addressing different from Physical adversing? Support your answer with example?

My <u>logial</u> -> It is Re vistual address generated by CPU.

-> set of all logical advesses generated by CPU in reference to a program is referred as logical.

-> The user con view the logical advers of a program.

Physical. The location in a momenty unit.

mapped to the corresponding Logical addresses is as physical advesses.

The user Con the never View physical address of program.

SJ & local telephone Company wonts to connect Re LAN'S In all its offices Through a city. For This case which network category would be used?

Any Local telephone company wonts to conned the lands in all its offices in the city. Per this cause the Ring network category would be used.

G D3 as consider the following network, how many hope will it beautive for dota to seach Isom node. A to rodej Ans In his Network 3hopes will required for data to seach 7 rom A toj. 1 from End-system A to router B. 2 From router B to router 1. 3 78 on souter 1 to and system to souter 1. @ A sine wave has a frequency of 135HZ. What is its period? Ans The frequency of 135Hz. of sine

wave is.

 $t = \frac{1}{130} = 0.0074$

The time period is [0.0074]