## Department of Electrical Engineering Mid – Term Assignment Spring 2020

Date: 13/04/2020

Course Title:	Computer Communication Network	Module: _	06
Instructor:		Total Marks:	30

## **Student Details**

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Q1. (a)	<ol> <li>topology has unidirectional movement of traffic.</li> <li>Set of rules that govern communication is called</li></ol>	Marks 1 CLO 1
13	14 is the collection of all the component frequencies.	
Q2. (a)	<ol> <li>How are frames different from packets? Explain with examples.</li> <li>A phone line being analog can we send digital data on phone lines? Support your answer with examples.</li> <li>Give some details about fault tolerance, which network topologies have fault tolerance capability?</li> <li>How is logical addressing different from physical addressing? Support your answer with examples.</li> <li>A local telephone company wants to connect the LANs in all its offices throughout a city. For this cases which network entergory would be used?</li> </ol>	Marks 10 CLO 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  End system  Intermediate system	Marks 0 CLO 1
	system Link Link	

Question = o1: Answer: i):- Ring
ii):- Protocol iii):- Relaibility
iv):- Digital to analog
v):- Physical layer
vi):- Physical vii):- Message viii):- Mesh ix):- Periodic x):- 56.6 , 33.6 xii):- Transport layer XIII):- Analog to degital XIV):- Exequency

Question = 02: Part: - (a): Sub part: - (al):-Answer:-Frame :- 1 i) It is the data link layer Protocol data unit: 11). Its associated OSI layer is data link layer iii) It includes source and destination MAC address. iv)-Coxxelation segment is encapsulated with in a packet. e.g.. A particular example of frame in Ethernet frame · Packet:i): It is the network layer protocol data unit. ii); Its associated OST layer is network layer Till It includes source and destination IP address iv): Correlation Packet is encapsulated with in a frame. An enormous file is broken into many packets and then transmitted across the network. And then software regather them into single file again

2): Computer transmit data rexpressed as electrical impulse where as telephone transmit voice frequency as an analog righals to transmit digital data. The rending modern must first modute or mencode a computer data signal into a analog signal than can travel over the phone. e.g. Digital phone rending high spred data while analog is slow on tolexance:-It is a property its components topology have multi-connection it the most foult tollerant network is connected to each other component

4). Logical address: i). It is virtual address generated by CPU. ii). The uses can view the logical address of a program.

iii)-The user user the logical address to access the physical address. e.g. - Memory cell. Storage element and Physical address: i). It is a location in a memory unit il. The user can never vein physical address of program. iii). The user can not directly access physical address. eg:- A postal address generally called physical address. 5). A local telephone company wants to connect the LAN's in all its officers throughout a city For this a network category which is used as known is the Ring network category

Question = 03:-Past :- (a) .-There are 3 holds Question = 03: Part :- (b):-F = 135 Hz Required: TimePexiod = T=? As we know T = 0.0074 Sec T=0.0074) rec