National University of Computer and Emerging Sciences, Lahore Campus

		Course:	to so lexel	Course	all who
			Computer Networks	Code:	CS307
		Program:	Genevas Sciences		Fall
			BS(Computer Science)	Semester:	2019
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		Duration:	20 Minutes	Marks:	15
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Mis		Section:	E	Page(s):	1 (15 Assum)
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			etwork layer stack do each of ayer name and number)	the following p	
	operate:	(Give BOTH)	ayer name and number)		[10]
	C12181813				and deli

Protocol	Layer	
НТТР	7 (application)	
DHCP	7 (opplication)	•
Ethernet	2 (ethersel) double	nc)
DNS	7. (application)	
IP TOMOT WITH	3 (network)	
ICMP	3. (network)	
UDP	4 1 transport	
IPv6	3 (network)	
ARP	a (data Linux)	
FTP	7 (application)	

2) What is Encapsulation? Describe the process of encapsulation when a packet moves from Transport layer to Network Layer on a sending host. Encapsolation is covering the data musg into headers at each respective layer. Transport layer => a msg is covered with layer 4 header and header and thus becomes a packet. Packet network layer => network layer receives a packet and add layer3 I header and Thus becomes

I frome a desta comes frome forme and add largers love header this becomes a data gram. dota link layer >

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At which layer of the network layer stack do each of the following protocols operate? (Give BOTH layer name and number)

[10]

Protocol	Layer
НТТР	Application 5
DHCP	Network 30
Ethernet	Physical 10
DNS	Transpa Network 30
IP '	Network 3
ICMP	Transport 4 0
UDP	4 DRETWAY Transport
IPv6	3 Network
ARP	Physical 10
FTP	Fransport 40

⁵ Application 4 Transport

³ Hetwork.

² Datalink

¹ Physical

2) What is Encapsulation? Describe the process of encapsulation when a packet moves from Transport layer to Network Layer on a sending host. Encapsulation means to odd necessary headers on the packet , so that it reaches the destination address correctly. when a packet moves from Transport layer to Network larger, the over TCP/UDP headers are added to the packet it goes to the network layer. At network layer, IP header is added to data packet men it goes to further layer and finally at me destination. When most packet reaches destination, It is decapsulated. Destination. Source Application Data I TCP Network Transport Transport TEP Data 1 Data 11P Network Network Datalink DataLink Physical Physical.

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1) At which layer of the network layer stack do each of the following protocols operate? (Give BOTH layer name and number) [10]

Protocol	Layer
НТТР	Hetwork 80
DHCP	Netnock
Ethernet	Physical
DNS	Fran part Duh Link Loy en
IP	Network
ICMP	Network
UDP	Transport 90
IPv6	Network
ARP	Attack Pake link layer
FTP	Transport 20,21

2) What is Encapsulation? Describe the process of encapsulation when a packet moves from Transport layer to Network Layer on a sending host. [5]

Ereapsulation is adding more data to the packet passed by Transport leyer to Network layer. In the network layer when sending the packet some data is added the data is sender 9%, reciever 9%, sender port, reciever port, checksum ad some other data. Then the other site first

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