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Marks

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S S T In	bubje bubje bime: nstruc	GUJAR BE - SH ct Code: 21407 ct Name: COM 10:30 AM TO 0 tions: 1. Attempt all ou	AT TECHNOLOGI EMESTER– IV EXAMINA 709 APUTER NETWORKS 1:00 PM 1estions.	CAL UNIVERSITY FION – SUMMER 2020 Date:02/11/2020 Total Marks: 70
		 Make suitable Figures to the 	e assumptions wherever necessaright indicate full marks.	ary.
Q.1	(a) (b) (c)	Differentiate between Connection oriented and Connectionless services. List out & discuss various types of addresses used in internetworking. Draw & explain the Internet protocol stack. Write down various duties performed by each layer.		
Q.2	(a) (b) (c)	 (a) What is the role of Domain Name Server (DNS) in Internet? (b) Compare UDP with TCP. (c) Draw & explain general format of two different types of HTTP message. OR (c) List out & discuss in detail various physical media used for accessing the network. 		
	(c)			edia used for accessing the
Q.3	(a) (b) (c)	Compare Go-Back-N ARQ with Selective Repeat ARQ. How UDP checksum value is calculated? Explain with suitable example. Draw & explain each field of TCP segment header.		
Q.3	(a) (b) (c)	Compare flow control with congestion control. Explain the concept of pipelining in brief. List any two pipelined RDT protocols. Explain TCP congestion control algorithm with the help of following terms & suitable diagram: 1.) Slow start, 2.) Congestion avoidance, 3.) Fast recovery, 4.) AIMD.		
Q.4	(a) (b) (c)	Compare virtual- Briefly explain the Draw & explain	tual-circuit networks with datagram networks. ain the terms: CIDR & classful addressing. lain each field of IPv4 datagram.	
Q.4	(a) (b) (c)	Differentiate between the forwarding and the routing. Draw & explain in brief router architecture. What is the role of routing algorithms at network layer? Illustrate the operation of Distance Vector routing algorithm for the simple 3-node network.		
Q.5	(a) (b) (c)	Justify how slott How DHCP wor Draw Ethernet fr	ustify how slotted ALOHA is better than pure ALOHA. Iow DHCP works? Explain in brief. Draw Ethernet frame structure and explain each field in detail.	
Q.5	(a)	Compare physica	al LAN with virtual LAN.	

- How ARP works? Explain in brief. **(b)** Given the dataword 1010101010 and the divisor 10101, (c)
 - 1. Show the generation of codeword at the sender site.
 - 2. Show the generation of dataword at receiver site (assuming no errors).
