## GUJARAT TECHNOLOGICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–IV (NEW) EXAMINATION – SUMMER 2021			
			ate:04/09/2021
Subject Name:Computer Networks			
Time:02:30 PM TO 05:00 PM Total Marks:70			
Instructions:			
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
	4. 8	Simple and non-programmable scientific calculators are allowed.	
			MARKS
Q.1	<b>(a)</b>	Explain functionality of HUB with diagram.	03
	<b>(b</b> )	Explain Function of Bridge with diagram.	04
	(c)	Explain TCP/IP reference model.	07
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Q.2	(a)	What is use of ftp protocol? List out five ftp commands.	03
Q.2	(a) (b)	What is CSMA/CD? When and why it is used?	03
	(c)	What is IP address ? Explain sub netting with example.	07
		OR	
	(c)	What is subnet mask? Explain different classes of IP address.	07
Q.3	(a)	Which layer IP packet fragmentation is used? Why it is used?	03
Q.5	(b)	What is difference between forwarding and routing in reference to	
		functionality.	
	(c)	Explain Token Ring protocol with proper diagram.	07
03	(a)	OR In which scenario UDP protocol is used? Why?	03
Q.3	(a) (b)	List out various data consmission delay and explain any one with	
	(0)	diagram.	proper vi
	(c)	Explain transport layer RDT 2.0 protocol with FSM or timeline diag	gram. <b>07</b>
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Q.4	(a) (b)	Compare CRC code with normal parity code. Explain stata link layer frame structure.	03 04
	(b) (c)	Explain sliding window protocol with selective repeat.	07
	(0)	OR	07
Q.4	(a)	What is VLAN? When and why it is used?	03
	<b>(b)</b>	What is application DNS protocol? Which are operation mode o	d DNS 04
	(-)	query?	07
	(c)	Explain dijkstra (Link state) routing algorithm.	07
Q.5	(a)	When and why DHCP protocol is used?	03
	<b>(b)</b>	What is broadcast routing? How it is implemented?	04
	(c)	Write a short note on Distance Vector routing algorithm.	07
05	(-)	OR	03
Q.5	(a) (b)	Explain TCP slow start at transport layer. Explain use of Telnet protocol.	03 04
	(D) (C)	Write a short note on NAT(Network Address Translation Protocol).	
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