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GUJARAT TECHNOLOGICAL UNIVERSITY

Cubi		BE - SEMESTER–VI (NEW) EXAMINATION – SUMMER 2022 ode:3161007 Date:08	/06/2022
U		ame:Computer Networks	00/2022
•		<u>-</u>	orka. 70
Time:10:30 AM TO 01:00 PM Total Mai Instructions:			arks: /u
IIIStI U		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3. I	Figures to the right indicate full marks.	
	4. S	Simple and non-programmable scientific calculators are allowed.	MARKS
Q.1	(a)	Explain the terms: LAN, MAN, WAN.	03
	(b)		04
		1) Repeater 3) Bridges	
		2) Router 4) Gateway	
	(c)	y	07
		tasks performed by each layer in model.	
Q.2	(a)	Give comparison between packet switching and circuit switching.	03
•	(b)		04
	` ′	protocol is used in physical layer.	
	(c)	Explain HLDC protocol with modes of operation, and frame format.	07
		OR	
	(c)	Write note on sliding window protocol.	07
Q.3	(a)	Give comparison between CSMA/CA and CSMA/CD	03
	(b)	Explain the concept of piggybacking.	04
	(c)	What is framing? List all methods used for framing and discuss any	07
		two methods used for framing.	
		OR	
Q.3	(a)		03
	(b)	<u>-</u>	04
	(c)	What is sliding window protocols? For what purpose this protocol is	07
		used? What are the advantages of sliding window protocol?	
Q.4	(a)	How Bluetooth works? Explain Bluetooth architecture.	03
	(b)	-	04
	` ′	encapsulation is done?	
	(c)	What is the role of routing algorithms at network layer? Explain	07
		Distance vector routing algorithm in detail.	
		OR	
Q.4	(a)	ė.	03
	(b)		04
	, .	address?	a -
	(c)	Explain IPv4 header fields with necessary diagrams.	07
Q.5	(a)	•	03
	(b)	Give comparison between 1-persistent and P-persistent CSMA.	04

(c) Write short note on POP3 and SMTP.

07

OR

Q.5 (a)		What is flooding? Give its advantages and applications?	
	(b)	What is the function of following protocols?	04
		1) ICMP 3) DHCP 2) ARP 4) BOOTP	
	(c)	Explain Domain Naming System functioning for Internet.	07
