GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VII (NEW) EXAMINATION – SUMMER 2024 Subject Code:3170710 Date:22-05-2024			
Time:02:30 PM TO 05:00 PM Total Mark			
Instructi			
		tempt all questions. The suitable assumptions wherever necessary.	
		gures to the right indicate full marks.	
		nple and non-programmable scientific calculators are allowed.	
			MARKS
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Q.1	(a) (b)	Define IMSI,MSRN and MSISDN.	03 04
	(b)	Compare Packet Switching and Circuit Switching.	04 07
	(c)	Define Channel Capacity. Describe Nyquist and Shannon criteria to find Channel Capacity.	07
		enterna to find channel capacity.	
Q.2	(a)	Compare TDM and FDM.	03
·	(b)	Describe different types of Antennas.	04
	(c)	Draw and Describe GSM Architecture.	07
		OR	
	(c)	Describe Mobile IP.	07
Q.3	(a)	Describe Multi path Propagation and fading.	03
	(b)	Compare HLR and VLR.	04
	(c)	Describe Spread Spectrum Technology.	07
		OR	
Q.3	(a)	Describe billing and charging in GPRS.	03
	(b)	Describe Propagation Modes in Wireless Communication.	04
	(c)	Describe Frequency Hopping Spectrum Technology.	07
Q.4	(a)	Write Architectural Difference in GSM and GPRS.	03
	(b)	Enlist various Multiple Access Technology and Describe	04
		CDMA.	
	(c)	Describe Automatic Repeat Request.	07
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Q.4	(a)	Enlist various error detection techniques and explain any one.	03
	(b)	Describe Multiple Access with Collision Avoidance.	04
	(c)	Describe Wireless Application Protocol.	07
Q.5	(a)	Write use of Manifest file.	03
-	(b)	Enlist Various Android Layouts. Describe any one.	04
	(c)	Draw and Describe Bluetooth Protocol Architecture.	07
		OR	
Q.5	(a)	Differentiate Wi-fi and Wi-Max.	03
	(b)	Describe Piconets and scatternet.	04
	(c)	Describe Android Architecture.	07
