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GUJARAT TECHNOLOGICAL UNIVERSITY

		BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2020	
•		Code:2170710 Date:25/01/20	21
•		Name: Mobile Computing and Wireless Communication	
		:30 AM TO 12:30 PM Total Marks:	: 56
Instru			
	2.	Attempt any FOUR questions out of EIGHT questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Define Channel capacity. What is Shannon's capacity formula for noisy channel?	03
	(b)		04
	(c)	Compare LAN, MAN and WAN with proper diagram.	07
Q.2	(a)	Describe Wireless application protocol.	03
	(b)	Classify Guided and Unguided media. Show the use of Guided media in real world.	04
	(c)		07
Q.3	(a)	List and explain functionality of Serving GPRS Support Node(SGSN) and Gateway GPRS Support Node(GGSN).	03
	(b)	What are the common layouts available in Android? Elaborate any two layouts.	04
	(c)	Define Radio propagation. List and explain propagation modes.	07
Q.4	(a) (b) (c)	· · · · · · · · · · · · · · · · · · ·	03 04 07
Q.5	(a) (b)	Define and explain Android Framework. Show the use of below GSM Identifiers.	03 04
	(c)	i) IMEI ii) IMSI iii) MSISDN iv) MSRN Explain Amplitude shift keying(ASK), Frequency shift keying(FSK) and Phase shift keying(PSK) in digital-to-analog conversion.	07
Q.6	(a)	Justify, Why Hexagon cell shape is used in cellular network?	03
	(b) (c)	Define Handover. List and explain the types of handover. Draw and explain Bluetooth protocol stack.	04 07
Q.7	(a) (b)		03 04
	(c)	Enlist and explain Error detection methods in cellular wireless network.	07
Q.8	(a) (b) (c)	•	03 04 07
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