Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION - SUMMER 2021

Subject Code:2170710 Date:05/08/2021

Subject Name: Mobile Computing and Wireless Communication

Time:10:30 AM TO 01:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full markss.

			MARKS
Q.1	(a)	Explain Piconet and Scatternet.	03
	(b)	Differentiate packet switching and circuit switching.	04
	(c)	Explain Mobile IP.	07
Q.2	(a)	Define IMSI, IMEI and MSISDN.	03
	(b)	Define Multiplexing. Explain the FDM and TDM.	04
	(c)	Write a note on stop-and-wait and selective repeat ARQ.	07
		OR	
	(c)	Explain GSM architecture.	07
Q.3	(a)	Explain SGSN and GGSN?	03
	(b)	What is noise? Discuss briefly types of noise and its effect on transmission signal.	04
	(c)	Explain IEEE 802.11 architecture and its services.	07
		OR	
Q.3	(a)	What is channel capacity? What are the factors that affect it?	03
	(b)	Discuss the A3 and A8 algorithms.	04
	(c)	Explain GSM call routing.	07
Q.4	(a)	Define Reflection, Refraction and Handover.	03
	(b)	Describe any one error detection technique with suitable example.	04
	(c)	Explain direct sequence spread spectrum with example.	07
		OR	
Q.4	(a)	Define ASK, FSK and PSK.	03
	(b)	Differentiate GSM and CDMA.	04
	(c)	Explain the GPRS transmission plane protocol model.	07
Q.5	(a)	Discuss Activity life cycle in Android.	03
	(b)		04
	(c)	Draw and explain Android platform architecture.	07
	. ,	OR	
Q.5	(a)	Explain types of Intents.	03
	(b)	Explain Android EditText and TextView control with an example.	04
	(c)	Write a note on Bluetooth protocol stack.	07
