

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII(NEW) EXAMINATION – SUMMER 2019****Subject Code:2170710****Date:16/05/2019****Subject Name:Mobile Computing and Wireless Communication****Time:02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

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

		MARKS
Q.1	(a) Define Reflection, Refraction and diffraction.	03
	(b) Explain packet switching and circuit switching.	04
	(c) Explain GSM call routing.	07
Q.2	(a) Discuss hidden and exposed terminals.	03
	(b) Write a short note on selective repeat ARQ.	04
	(c) Explain various signal multiplexing techniques.	07
	OR	
	(c) Discuss Mobile IP.	07
Q.3	(a) Differentiate infrastructure and ad-hoc network.	03
	(b) Explain handover process in cellular system.	04
	(c) Explain frequency hopping spread spectrum.	07
	OR	
Q.3	(a) What are the advantages of WLAN.	03
	(b) What is Multi-path propagation and fading?	04
	(c) Discuss GSM architecture in detail.	07
Q.4	(a) Discuss Piconet and Scatternet.	03
	(b) Describe any one error detection technique with suitable example.	04
	(c) Explain DFWMAC-DCF using CSMA/CA.	07
	OR	
Q.4	(a) Differentiate GSM and CDMA.	03
	(b) Explain L2CAP protocol of Bluetooth.	04
	(c) Draw and explain the GPRS transmission plane protocol model.	07
Q.5	(a) Explain the power saving states of Bluetooth device.	03
	(b) Discuss Activity life cycle in Android.	04
	(c) Explain Android platform architecture.	07
	OR	
Q.5	(a) Explain types of Intents.	03
	(b) Discuss the manifest file with example.	04
	(c) Write a note on Bluetooth protocol stack.	07
