

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2024

Subject Code: 2170710

Date: 30-05-2024

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.
4. Simple and non-programmable scientific calculators are allowed.

	MARKS
Q.1* (a) Differentiate between GSM and GPRS.	03
(b) Describe the TCP/IP protocol architecture.	04
(c) Explain the different types of layouts available in android.	07
Q.2 (a) Describe the GSM addresses and identifiers used in GSM.	03
(b) Differentiate between packet switching and circuit switching.	04
(c) Explain the GPRS network operation in detail.	07
OR	
(c) Explain Wireless Application protocol stack with neat figure.	07
Q.3 (a) Compare 1G, 2G and 3G mobile generations.	03
(b) Describe the types of transmission media.	04
(c) Explain IEEE 802.11 architecture in detail.	07
OR	
Q.3 (a) Explain PLMN interface.	03
(b) Describe the billing and charging functions in GPRS.	04
(c) Explain GSM architecture with neat diagram.	07
Q.4 (a) Discuss the types of propagation modes.	03
(b) Differentiate ASK, FSK and PSK.	04
(c) Discuss the operation of Mobile IP.	07
OR	
Q.4 (a) Differentiate WiFi and WiMAX.	03
(b) Discuss Cyclic Redundancy Check with example.	04
(c) Explain Call Routing in GSM.	07
Q.5 (a) Explain the types of intents in android.	03
(b) Describe Activity lifecycle in android.	04
(c) Explain Bluetooth protocol stack with neat figure.	07
OR	
Q.5 (a) Describe manifest file with example.	03
(b) Explain Button view and Rating bar with example.	04
(c) Explain the Direct Sequence Spread Spectrum.	07
