Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
ME SEMESTER – I EXAMINATION – SUMMER 2017

Subject Code: 2710209   **Date:10/05/2017**
Subject Name: 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.**

Q.1	**(a)**	What is multiplexing? Explain various multiplexing techniques used in wireless communication.	**07**
	(b)	Draw neat and clean diagram of GSM.	**07**
Q.2	**(a)**	Explain GSM call routing for MTC (Mobile Terminating Call)	**07**
	(b)	What is spread spectrum? Explain its need and discuss about its techniques.	**07**
		OR	
	(b)	Explain FHSS with example.	**07**

Q.3	**(a)**	Explain following with respect to GSM
		  i. IMEI
		  ii. IMSI
		  iii. MSISDN
			07

	(b)	Write a note on GPRS protocol stack.	**07**
		OR	
Q.3	**(a)**	What is hand over? Why it is required? Give example of Roaming	**07**
	(b)	Give differences between Ad-hoc and Infrastructure based wireless networks	**07**
Q.4	**(a)**	Explain AODV protocol with example	**07**
	(b)	Write a note on Bluetooth protocol stack.	**07**
Q.4	**(a)**	Explain DSR protocol with example.	**07**
	(b)	Write short note on Snoop TCP	**07**
Q.5	**(a)**	What is Intent in Android? Explain with example.	**07**
	(b)	Explain Push and Pull techniques with respect to WAP.	**07**
Q.5	**(a)**	Explain resource handling mechanism in Android application.	**07**
	(b)	Draw and Explain the Frame structure for GSM	**07**

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