Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V • EXAMINATION – WINTER 2013

Su	bject	t Code: 650016 Date: 30-11-2013	
Ti	_	t Name: Wireless Communication Mobile 02.30 pm - 05.00 pm Total Marks: 70 ons:	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Give the full form of the followings: (Any seven)	07
		a. PLMN b.GSM c. VHE d. CDMA e. WTLS f. GPRS g. MSRN h. IMEI	
	(b)	Describe the GSM architecture.	07
Q.2	(a) (b)	Explain wireless LAN advantages in detail. Describe the spread-spectrum technology in detail. OR	07 07
	(b)	Explain value added services through SMS in detail.	07
Q. 3	(a) (b)	Explain the Bluetooth Protocol Stack. Explain GSM entities in detail.	07 07
0.0		OR	07
Q.3	(a) (b)	Explain the architecture of SMS. What are the different tiers in three-tier architecture of mobile computing? Describe the functions of these tiers?	
Q.4	(a) (b)	Explain data services in GPRS in detail. What is Handoff? Describe different types of handoffs. OR	07 07
Q.4	(a) (b)	What are the differences between CDMA and GSM? Describe the WAP protocol stack while enumerating the functions of different layers.	07 07
Q. 5		Explain real time protocol (RTP) in detail. What is RFID? Explain active RFID and passive RFID. Also describe two applications of active RFID and passive RFID.	07 07
Q. 5	(a)	OR Attempt any two.	07
	<u>.</u> .	(i) Semantic Web(ii) IS-95 Channel Capacity(iii) Client Context Manager	
	(b)	Explain IEEE 802.11 standard in detail.	07
