

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V • EXAMINATION – WINTER 2013

Subject Code: 650016

Date: 30-11-2013

Subject Name: Wireless Communication Mobile

Time: 02.30 pm - 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)** 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)** Explain wireless LAN advantages in detail. **07**
- (b)** Describe the spread-spectrum technology in detail. **07**
- OR**
- (b)** Explain value added services through SMS in detail. **07**
- Q.3 (a)** Explain the Bluetooth Protocol Stack. **07**
- (b)** Explain GSM entities in detail. **07**
- OR**
- Q.3 (a)** Explain the architecture of SMS. **07**
- (b)** What are the different tiers in three-tier architecture of mobile computing? Describe the functions of these tiers? **07**
- Q.4 (a)** Explain data services in GPRS in detail. **07**
- (b)** What is Handoff? Describe different types of handoffs. **07**
- OR**
- Q.4 (a)** What are the differences between CDMA and GSM? **07**
- (b)** Describe the WAP protocol stack while enumerating the functions of different layers. **07**
- Q.5 (a)** Explain real time protocol (RTP) in detail. **07**
- (b)** What is RFID? Explain active RFID and passive RFID. Also describe two applications of active RFID and passive RFID. **07**
- OR**
- Q.5 (a)** Attempt any two. **07**
- (i) Semantic Web
(ii) IS-95 Channel Capacity
(iii) Client Context Manager
- (b)** Explain IEEE 802.11 standard in detail. **07**
