

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER-V • EXAMINATION – SUMMER 2013

Subject Code: 650016

Date: 20-05-2013

Subject Name: Wireless Communication Mobile Programming

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) Explain three-tier architecture of mobile computing. **07**
(b) Explain wireless broadband in detail. **07**

Q.2 (a) Explain applications for GPRS in detail. **07**
(b) Explain CDMA versus GSM in detail. **07**

OR

(b) Explain wireless LAN advantages in detail. **07**

Q.3 (a) Explain application and services of mobile computing in detail. **07**
(b) Explain GSM entities in detail. **07**

OR

Q.3 (a) Explain mobile ad hoc networks and sensor networks in detail. **07**
(b) Explain authentication and security GSM in detail. **07**

Q.4 (a) Explain data services in GPRS in detail. **07**
(b) Explain session initiation protocol (SIP) in detail. **07**

OR

Q.4 (a) Discuss Making existing applications mobile-enabled. **07**

Q.4 (b) Explain spread-spectrum technology in detail. **07**

Q.5 (a) Explain IEEE 802.11 standard in detail. **07**
(b) Explain application on 3G network in detail. **07**

OR

Q.5 (a) Explain real time protocol (RTP) in detail. **07**

(b) Explain value added services through SMS in detail. **07**
