

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V • EXAMINATION – SUMMER • 2015

Subject Code: 2650016

Date: 11-05-2015

Subject Name: Wireless Communication Mobile

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)** Attempt the following **07**
- (1) There are _____ basic frequencies on which RFID operates.
- (2) Full name of IMSI is _____
- (3) GSM is general uses _____ MHz band.
- (4) The maximum data transfer speed of Bluetooth network is _____ Mbps.
- (5) The first GSM network launched in the year _____.
- (6) The GSM is uses the radio interface is TDMA (True or False).
- (7) Full name of BSSGP is _____.
- (b)** Explain three tier architecture of mobile computing in detail. **07**
- Q.2 (a)** Explain evolution of mobile computing in detail. **07**
- (b)** Explain Bluetooth technology in detail. **07**
- OR**
- (b)** Explain RFID technology in detail. **07**
- Q.3 (a)** Explain mobile TCP in detail. **07**
- (b)** Explain spread spectrum technology in detail. **07**
- OR**
- Q.3 (a)** Explain GSM Architecture in detail. **07**
- (b)** Explain CDMA V/s GSM in detail. **07**
- Q.4 (a)** Explain GPRS network operation in detail. **07**
- (b)** Explain GPRS and Packet Data Network in detail. **07**
- OR**
- Q.4 (a)** Explain Mobile ad hoc and sensor network in detail. **07**
- (b)** Explain Session Initial Protocol (SIP) in detail. **07**
- Q.5 (a)** Explain security issues in mobile information security in detail. **07**
- (b)** Explain application in 3G wireless Lan in detail. **07**
- OR**
- Q.5 (a)** Explain GSM authentication and security in detail. **07**
- (b)** Explain AOC and SOC in detail. **07**
