

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M.C.A. – SEMESTER-V • EXAMINATION – WINTER 2015

Subject Code: 2650016

Date: 10/12/2015

Subject Name: Wireless Communication Mobile

Time: 10.30 am to 01.00 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 are the different tiers in three-tier architecture? Describe the functions of these tiers? **07**
- (b)** What is WiMax? How is it different from WiFi? Explain the WiMax physical layer. **07**
- Q.2 (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**
- OR**
- (b)** Discuss the protocol Stack of Bluetooth. **07**
- Q.3 (a)** Explain wireless LAN advantages in detail. **07**
- (b)** Describe the spread-spectrum technology in detail. **07**
- OR**
- Q.3 (a)** What is RFID? Explain active RFID and passive RFID. Also describe two applications of active RFID and passive RFID. **07**
- (b)** Explain value added services through SMS in detail. **07**
- Q.4 (a)** Describe the contrast between 3G and Wi-Fi technologies. **07**
- (b)** What are the different components of Information security? **07**
- OR**
- Q.4 (a)** Explain data services in GPRS in detail. **07**
- (b)** Give six functional differences between CDMA and GSM. **07**
- Q.5 (a)** Discuss the IEEE 802.11 family of standards. **07**
- (b)** Explain mobile ad hoc networks and sensor networks in detail. **07**
- OR**
- Q.5 (a)** What is Mobile IP? Explain tunneling in the context of Mobile IP. **07**
- (b)** What are the limitations of IPv4 that are overcome by IPv6? Discuss. **07**
