

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER-V • EXAMINATION – SUMMER • 2014

Subject Code: 650016**Date: 02-06-2014****Subject Name: Wireless Communication Mobile****Time: 10:30 am - 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 is difference between SOC and AOC? **07**
 (b) What are the different tiers in three-tier architecture? Describe the functions of these tiers? **07**
- Q.2** (a) What is active RFID? Explain active RFID and passive RFID Also Describe two applications of active RFID. **07**
 (b) What are the different components of Information security? **07**
- OR**
- (b) Discuss the protocol Stack of Bluetooth. **07**
- Q.3** (a) Describe what you understand by Wireless PAN, Wireless LAN and Wireless MAN. **07**
 (b) Write brief notes on: **07**
- a. GPS
 - b. Mobile Computing through Internet
- OR**
- Q.3** (a) Briefly describe the following networks with example and applications: **07**
- a. Wired networks
 - b. Wireless networks
 - c. Ad hoc networks
- (b) Explain the architecture of SMS. **07**
- Q.4** (a) Explain wireless LAN advantages in detail. **07**
 (b) Describe the contrast between 3G and Wi-Fi technologies. **07**
- OR**
- Q.4** (a) Explain application on 3G network in detail. **07**
 (b) Give six functional differences between CDMA and GSM. **07**
- Q.5** (a) Explain mobile ad hoc networks and sensor networks in detail. **07**
 (b) Explain authentication and security GSM in detail. **07**
- OR**
- Q.5** (a) Discuss the IEEE 802.11 family of standards. **07**
 (b) Give The Full Form of the Followings: **07**
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|---------|--------|---------|----------|
| 1. WAE | 2.WAP | 3.WSP | 4. Wi-Fi |
| 5. TDMA | 6. BSC | 7. ICAP | |
