

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER- 5 • EXAMINATION – SUMMER - 2016

Subject Code:2650016

Date:13/05/2016

Subject Name: WIRELESS COMMUNICATION MOBILE

Time: 10:30 AM to 01:00

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) Answer in very brief. **07**
1) Time out freezing
2) H.323
3) MSRN
4) VHE
5) Semantic Web
6) RTP
7) GPRS
(b) Explain the Bluetooth protocol stack. **07**
- Q.2** (a) Explain the architecture of GPRS. List the applications of GPRS with any suitable example. **07**
(b) What is spread-spectrum technology? Explain in detail. **07**
OR
(b) Explain mobile ad-hoc networks and sensor networks in detail. **07**
- Q.3** (a) Explain session initiation protocol (SIP) in detail. **07**
(b) What is RFID? Explain active vs. passive RFID. Explain with suitable examples. **07**
OR
- Q.3** (a) Discuss the limitations of IPv4 that are overcome by IPv6. **07**
(b) Discuss dissimilar functions of CDMA and GSM. **07**
- Q.4** (a) Explain SMS architecture. **07**
(b) Explain authentication and security for GSM. **07**
OR
- Q.4** (a) Discuss the IEEE 802.11 family of standards. **07**
(b) Describe Mobile IP. Explain tunneling in the context of Mobile IP. **07**
- Q.5** (a) Describe the WAP protocol stack with all its layers' functions. **07**
(b) What is WiMax ? How is it different from WiFi ? Explain the WiMax physical layer. **07**
OR
- Q.5** (a) Explain in brief. **07**
(i) IS-95 Channel Capacity (ii) Client Context Manager
(b) What is Handoff? Describe different types of handoffs. **07**
