

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA– SEMESTER –V EXAMINATION –SUMMER-2019**

**Subject Code:2650016****Date: 10-05-2019****Subject Name: Wireless Communication Mobile****Time:10.30 am to 1.00 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)** Answer the following: **07**
1. \_\_\_\_\_ type of RFID tags generally have longer read range.
  2. 802.11 standard is used for Bluetooth (True/False)
  3. There are \_\_\_\_\_ basic frequencies on which RFID operates.
  4. What is Passive RFID Tag?
  5. Which IEEE 802 standard is known as WiMAX?
  6. What is Symmetric Key Encryption?
  7. What is piconet?
- (b)** Give the full form of the followings: **07**
1. PLMN
  2. GSM
  3. RTP
  4. GPRS
  5. MSRN
  6. IMEI
  7. CDMA
- Q.2 (a)** Explain the Bluetooth protocol stack. **07**
- (b)** What are HLR and VLR in GSM? Describe its functions in call routing and roaming **07**
- OR**
- (b)** Briefly explain physical architecture of Mobile Computing. **07**
- Q.3 (a)** Explain session initiation protocol (SIP) in detail. **07**
- (b)** Differentiate between IPv4 and IPv6. **07**
- OR**
- Q.3 (a)** Explain RFID technology in detail. **07**
- (b)** Explain CDMA V/s GSM in detail. **07**
- Q.4 (a)** How is data routing done in GPRS? In what respect is data routing different from voice routing? **07**
- (b)** Explain value added services through SMS in detail. **07**
- OR**
- Q.4 (a)** Explain Mobile ad hoc and sensor network in detail. **07**
- (b)** What is Handoff? Explain Types of Handoff. **07**
- Q.5 (a)** Explain the IEEE 802.11 family of standards. **07**
- (b)** Describe Mobile IP. Explain tunneling in the context of Mobile IP. **07**
- OR**
- Q.5 (a)** Describe the WAP protocol stack with all its layers' functions. **07**
- (b)** Differentiate between H.323 and SIP VoIP. **07**

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