

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Engineering - SEMESTER-V • Examination – WINTER • 2014****Subject Code: 3351601****Date: 28-11-2014****Subject Name: Information Communication Networks****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.
4. English version is considered to be Authentic.

- Q.1** Answer any seven out of ten. **14**
1. Define cell, cluster.
 2. Define Bit interval, Bit rate, Baud rate
 3. List different entity used in SMS.
 4. List different entity used in GPRS.
 5. Explain PCU.
 6. Write Advantages of Bluetooth.
 7. Explain Different type of MANETs.
 8. Write an advantages of Digital communication.
 9. List entity used in Wireless LAN.
 10. Give full form of IMEI, SIM,
- Q.2** (a) Write an advantage and disadvantages of Wireless Communication **03**
OR
- (a) Explain ASK Modulation Technic **03**
(b) Explain 2G and 3G. **03**
OR
- (b) Explain FSK Modulation . **03**
(c) Explain Call Routing. **04**
OR
- (c) Limitation of GPRS. **04**
(d) Explain EDGE Architecture. **04**
OR
- (d) Explain GPRS Applications. **04**
- Q.3** (a) What is Packet switching and Circuit switching. **03**
OR
- (a) Advantages of RFID. **03**
(b) Write property of RFID. **03**
OR
- (b) Advantages of WCDMA. **03**
(c) Explain LTE Architecture. **04**
OR
- (c) WLAN networking mode. **04**
(d) Write an application of Bluetooth. **04**
OR
- (d) Explain Protocol Stack for blue tooth. **04**
- Q.4** (a) Explain Mobility management. **03**
OR
- (a) Explain GMSC and SMSC entity used in SMS **03**
(b) Explain Analog to Digital Conversion. **04**
OR

	(b) Explain QAM`	04
	(c) Explain GSM architecture.	07
Q.5	(a) What is Roaming ?Explain different type of roaming.	04
	(b) Explain Handoff.	04
	(c) Explain Frequency Reuse.	03
	(d) Different type of Data Network.	03

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