

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – I • EXAMINATION – WINTER • 2014

Subject code: 2712701**Date: 07-01-2015****Subject Name: Wireless Communication Network****Time: 02:30 pm - 05:00 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) Explain GSM Network Architecture with necessary Digram. **07**
(b) Explain Spread spectrum technology and its different methods. **07**
- Q.2** (a) Explain wireless technology generation from 1G to 4G. **07**
(b) Explain CELP speech codec in details. **07**
- OR**
- (b) Explain Mobile IP operation in detail. **07**
- Q.3** (a) Write a Short Note On Wireless 802.11 standard. **07**
(b) Draw and Explain a OFDM System. **07**
- OR**
- Q.3** (a) Explain economic benefits of Wireless Networks. **07**
(b) What is Mobility Management? Explain With Suitable example. **07**
- Q.4** (a) Explain Design and planning concept of Wide Area wireless Network. **07**
(b) Differentiate Wi-Fi and 3G networks. **07**
- OR**
- Q.4** (a) Explain security aspects in IEEE 802.11 **07**
(b) Give advantages and disadvantages of using TCP. Explain Wireless TCP in detail. **07**
- Q.5** (a) Explain Wireless Application Protocol (WAP) in detail. **07**
(b) What is Small Scale Fading? Discuss the Factors affecting small scale fading. **07**
- OR**
- Q.5** (a) Write a Short Note On BLUETOOTH. **07**
(b) Explain Zigbee Technology. **07**
