

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – I • EXAMINATION – WINTER 2012****Subject code: 710428N****Date: 16-01-2013****Subject Name: Recent Topics in Modern Communication Engineering****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 the key features of 3G in detail. **07**
(b) What is HSDPA? Explain in detail. **07**
- Q.2** (a) What LTE? How it is superior to 3G? **07**
(b) Write a short not LTE advance. **07**
- OR**
- (b) Write a short note on UWB. **07**
- Q.3** (a) Explain Zigbee in detail. **07**
(b) Explain various MIMO Formats **07**
- OR**
- Q.3** (a) Write a short note on Wireless Metropolitan Area Networks **07**
(b) What is the importance and need of IPV6 in 3G? **07**
- Q.4** (a) Write a short note on Local Multipoint Distribution Service. **07**
(b) Explain Spatial multiplexing and Receive Diversity in Wimax. **07**
- OR**
- Q.4** (a) What are the key parameters which decide the maximum number of **07**
users in Mobile communication?
- Q.4** (b) Discuss Handover Algorithm and Procedure in LTE **07**
- Q.5** (a) Explain High Altitude Platform Communication for wireless. **07**
(b) What are the security features in Wimax network. **07**
- OR**
- Q.5** (a) What are the techniques, used for coverage in small indoor space in **07**
4G.Explain in detail.
- (b) Write a short note on scheduling strategies is available in LTE. **07**
