

GUJARAT TECHNOLOGICAL UNIVERSITY**M.E –Ist SEMESTER–EXAMINATION – JULY- 2012****Subject code: 715303N****Date: 09/07/2012****Subject Name: Wireless Networks and Mobile Computing****Time: 2:30 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 Issues related to Mobility Support in IEEE 802.11 WLAN **07**
(b) Explain QoS support & Limitation of IEEE 802.11 **07**
- Q.2** (a) Explain the various PHY/MAC attributes that can be used to improve network capacity in Wireless Mesh Network. **07**
(b) Compare IEEE 802.11a/ IEEE 802.11a b/ IEEE 802.11a g **07**
- OR**
- (b) What are the advantages of Bluetooth? **07**
- Q.3** (a) Compare Multi-Channel MAC (MMAC) & Asynchronous Multi- Channel Co-ordination Protocol (AMCP) with respect to Channel Diversity in Wireless Mesh Network. **07**
(b) Explain Multi-Channel Routing (MCR) routing protocol for Wireless Mesh Network. **07**
- OR**
- Q.3** (a) Explain Multi-Radio Link Quality Source Routing (MR-LQSR) routing protocol for Wireless Mesh Network. **07**
(b) Draw & explain basic block diagram of Wireless Mesh Network. **07**
- Q.4** (a) Explain various connecting modes of Bluetooth. Explain Bluetooth Scatternet with five piconets. **07**
(b) Explain scheduling in Bluetooth networks. **07**
- OR**
- Q.4** (a) What is the need of Self routing in Bluetooth Network? Explain in detail. **07**
(b) Discuss TCP performance issues in Bluetooth piconet. **07**
- Q.5** (a) Explain Wireless network security issues. **07**
(b) Explain Mobile computing and its applications. **07**
- OR**
- Q.5** (a) Classify different Wireless networks on the basis of supported data rates. **07**
(b) Design a High Capacity Bluetooth Access point for interference elimination. **07**
