

Seat No.: _____

Enrolment

No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION – SUMMER • 2014

Subject Code: 170702

Date: 03-06-2014

Subject Name: Mobile Computing

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 architecture of Mobile Computing and also discuss security issues in Mobile Computing. . **07**
(b) Explain Wireless LAN standards and Wireless LAN architecture.. **07**
- Q.2** (a) Explain GSM architecture and role of its components. **07**
(b) Compare : IP and Mobile IP. **07**
- OR**
- (b) Explain : Blue tooth and RFID. **07**
- Q.3** (a) What is Cellular network? Explain frequency allocation in GSM network. **07**
(b) Explain Mobile Computing over SMS. Also explain pull and push SMS. **07**
- OR**
- Q.3** (a) Explain Call routing in GSM. **07**
(b) Explain : Handover , Authentication and Security in GSM **07**
- Q.4** (a) Explain Routing in Mobile Adhoc Network in detail. **07**
(b) Explain : Indirect TCP and Mobile TCP **07**
- OR**
- Q.4** (a) Explain GPRS operations with its architecture. **07**
(b) Compare : CDMA and GSM **07**
- Q.5** (a) Discuss Billing and Charging in GPRS network. **07**
(b) Explain : IPv6 and 3G Wireless **07**
- OR**
- Q.5** (a) Compare : H.232 and SIP **07**
(b) Explain : Spread Spectrum and WAP **07**
