

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION – WINTER 2015

Subject Code: 170702

Date: 07/12/2015

Subject Name: Mobile Computing

Time: 10:30am to 1:00pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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|-----|-----|--|----|
| Q.1 | (a) | Explain different types of Mobile Operating Systems . Give architecture of Mobile Computing. | 07 |
| | (b) | What are the advantages of mobile applications? How existing application can be made mobile enabled? Explain | 07 |
| Q.2 | (a) | Explain routing in mobile network? | 07 |
| | (b) | What is Cellular network? Explain GSM architecture in detail. | 07 |
| | | OR | |
| | (b) | Compare : CDMA and GSM | 07 |
| Q.3 | (a) | Explain Call routing in GSM network. | 07 |
| | (b) | Explain value added services through SMS. | 07 |
| | | OR | |
| Q.3 | (a) | Explain : Indirect TCP and Mobile TCP | 07 |
| | (b) | Explain : Handover , Authentication and Security in GSM | 07 |
| Q.4 | (a) | Explain Routing in Mobile Adhoc Network in detail. | 07 |
| | (b) | Explain IEEE 802.11 standards in details. | 07 |
| | | OR | |
| Q.4 | (a) | Compare : H.232 and SIP | 07 |
| | (b) | Explain GPRS operations with its architecture. | 07 |
| Q.5 | (a) | Discuss Billing and Charging in GPRS network. | 07 |
| | (b) | Explain : Blue tooth and RFID | 07 |
| | | OR | |
| Q.5 | (a) | Explain : Spread Spectrum and WAP | 07 |
| | (b) | Compare : IP and Mobile IP. | 07 |