

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION – SUMMER 2015

Subject Code:170702

Date:08/05/2015

Subject Name: Mobile Computing

Time:2.30pm-5.00pm

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) | Discuss data services in GPRS. Describe applications suitable for GPRS. | 07 |
| | (b) | Describe MMS in detail. | 07 |
| Q.2 | (a) | Explain Wireless LAN standards and Wireless LAN architecture. | 07 |
| | (b) | Explain architecture of Mobile Computing and also discuss security issues in Mobile Computing. | 07 |
| OR | | | |
| | (b) | Explain: Blue tooth and RFID. | 07 |
| Q.3 | (a) | How does the Mobile IP work? Explain its architecture. | 07 |
| | (b) | Explain call routing in the context of GPRS networks. | 07 |
| OR | | | |
| Q.3 | (a) | Explain in detail Direct Sequence Spread Spectrum (DSSS). | 07 |
| | (b) | Explain Mobile Computing over SMS. Also explain pull and push SMS. | 07 |
| Q.4 | (a) | Describe symmetric key cryptography and public key cryptography. | 07 |
| | (b) | Explain: Indirect TCP and Mobile TCP. | 07 |
| OR | | | |
| Q.4 | (a) | What is Walsh function? Explain it for CDMA orthogonal codes. | 07 |
| | (b) | Describe the contrast between 3G and Wi-Fi technologies. | 07 |
| Q.5 | (a) | Describe IPV6 in detail. | 07 |
| | (b) | Discuss Billing and Charging in GPRS network. | 07 |
| OR | | | |
| Q.5 | (a) | Explain snooping TCP and mobile TCP. | 07 |
| | (b) | Explain three tier architecture of Mobile Computing. | 07 |
