

**B.TECH. COMPUTER SCIENCE AND  
ENGINEERING (BTCSEVI)****Term-End Examination****December, 2013****BICSE-014 : MOBILE COMPUTING***Time : 3 hours**Maximum Marks : 70*

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*Note : (i) Answer **any seven** questions.**(ii) All questions carry **equal** marks.*

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| 1. | Explain in detail about the Mobile TCP and traditional TCP.  | 10 |
| 2. | (a) What are the factors that influence the dropped call rate ?                                    | 5  |
|    | (b) Write notes on cell site handoff and intersystem handoff ?                                     | 5  |
| 3. | Describe the security problems in mobile and wireless computing systems and suggest the solutions. | 10 |
| 4. | (a) Explain about the data replication for mobile computers.                                       | 5  |
|    | (b) Discuss in brief the disconnected operation in mobile computing.                               | 5  |
| 5. | Explain the issues ensuring of QOS in mobile environment.  | 10 |
| 6. | (a) List and briefly explain the classes of transaction service of WTP.                            | 5  |

- (b) What are the advantages and disadvantages of forwarding mechanism in Bluetooth network regarding security and power saving ? 5
7. Explain the code division Multiplexing and also explain its advantages and disadvantages. 10
8. Write short notes on the following
- (a) Caching invalidation mechanisms 5
  - (b) GPRS 5
9. Explain how foreign agent is discovered in mobile IP in detail. 10
10. Explain the following routing protocols.
- (a) Destination sequenced distance vector routing (DSDV). 5
  - (b) Ad hoc on demand distance vector routing. 5
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