

**B.Tech. – VIEP – COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)**

00334

**Term-End Examination
June, 2014**

BICSE-014 : MOBILE COMPUTING

Time : 3 hours

Maximum Marks : 70

Note : Answer any **seven** questions. All questions carry equal marks.

1. Describe the GSM and CDMA standards used in wireless communication through mobile device. 10
2. Discuss the mobile, bearer, supplementary and tele services of GSM. 10
3. (a) Draw and explain the GPRS architecture reference model. 5
(b) How is localization, location update, roaming, etc. done in GSM and how are they reflected in the databases ?
4. What is Internet Protocol ? Discuss OSI layer functions. 10
5. Give a brief account on route optimization in mobile-IP. 10

6. (a) Explain the architecture of mobile agent. 5
(b) What are the different data management issues ? 5
7. What is transaction ? Explain the ACID properties associated with database transaction. 10
8. (a) Explain the process of Data Recovery. 6
(b) What are the various quality issues related to mobile database computing ? 4
9. (a) List and explain the properties of mobile ad hoc networks. 5
(b) What are the advantages of MANETs ? Explain in detail. 5
10. Explain any *two* of the following : $2 \times 5 = 10$
(a) DSDV
(b) DSR
(c) AODV
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