BICSE-014

B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)
Term-End Examination
June, 2015

00015

BICSE-014 : MOBILE COMPUTING

Time : 3 hours   *Maximum Marks : 70*

*Note : Attempt any **seven** questions. Each question carries equal marks.*

1. What do you understand by wireless telephony ? Explain the cellular concept and architecture in detail.   *10*

2. Using a suitable block diagram, explain the GSM system architecture in detail.   *10*

3. State and describe the role of HLR and VLR in a GSM network. Also explain the GPRS architecture used in a GSM network using suitable diagram.   *10*

4. List the various MAC issues. Also explain the IEEE 802·11 protocol in detail.   *10*

5. Explain the WAP protocol stack in detail, using a suitable diagram. *10*

6. Describe the various data management issues in detail. *10*

7. Explain the file system used for mobile computing. Also discuss the issues in disconnected operations. *10*

8. What are mobile computing agents ? Explain the various security and fault tolerance issues involved in mobile computing agents. *10*

9. What are Ad Hoc networks ? What are the various MAC issues encountered in Ad Hoc networks ? *10*

10. Explain any *one* of the following : *10*

   (a) DSR

   (b) TORA