BICSE-014

B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)
Term-End Examination
00436
December, 2014

BICSE-014 : MOBILE COMPUTING

Time : 3 hours   *Maximum Marks : 70*

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

1. (a) What are the issues in mobile computing ?   *5*

    (b) List and explain the characteristics of a communication device.   *5*

2. List the main elements of GSM's system architecture and briefly explain their functionalities.   *10*

3. Explain the following problems of wireless transmission :

    (i) Exposed terminal and hidden terminal   *5*

    (ii) Near and far terminals   *5*

4. Explain in detail about IEEE 802.11.   *10*

5. Explain the methods of tunneling and encapsulation in mobile-IP. *10*

6. Write short notes on the following :

   (a) Data Broadcasting *5*

   (b) Protocol Stack *5*

7. (a) What are the different types of broadcast disk models ? *5*

   (b) What are the characteristics of digital audio broadcasting ? *5*

8. What are the steps in transaction processing in mobile computing environment ? *10*

9. Distinguish between cellular networks and ad hoc wireless networks. Explain with examples. *10*

10. Classify routing algorithms based on the variations in network topology. *10*