BICSE-014

B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)
Term-End Examination
December, 2016

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BICSE-014 : MOBILE COMPUTING

Time : 3 hours   *Maximum Marks : 70*

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

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

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

2. (a)   Explain WAP architecture with the help of a neat diagram.   5

   (b)   Discuss in brief the cell site hand-off and intersystem hand-off.   5

3.   Explain the code division multiplexing and also explain its advantages and disadvantages.   10

4. (a)   Explain 'Mobile Computing' with the help of any suitable example.   5

   (b)   Describe the system architecture and protocol architecture of IEEE 802·11 with the help of suitable examples.   5

5. (a) What is Bluetooth ? Where is it used ? Describe the general format of packet and packet header in Bluetooth technology. *5*

(b) What are the main reasons for using cellular systems ? Describe the dynamic channel allocation in cellular systems. *5*

6. Describe the security problems in mobile and wireless computing systems and suggest solutions. *10*

7. How is data management done in mobile computing ? Explain it by giving a suitable example. *10*

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

9. Explain how a foreign agent is discovered in Mobile IP. *10*

10. Write short notes on any *two* of the following : *2×5=10*

(a) Temporally Ordered Routing Algorithm (TORA)

(b) DSR

(c) GSM