Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(ECE) (2011 Batch E-III)

B.Tech.(ETE) (2011 Onwards E-III)   (Sem.–7,8)

MOBILE COMPUTING
Subject Code : BTEC-919
Paper ID : [A3014]

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTION TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.**

SECTION-A

1. **Answer briefly :**

   a. Mention any four challenges of mobile computing.

   b. What do you mean by location management in cellular systems?

   c. What is encapsulation mechanism in Mobile IP?

   d. What are the advantages of Mobile TCP?

   e. How Mobile Internet protocol (Mobile IP) works?

   f. Mention salient features of WAP.

   g. What are limitations of Bluetooth technology?

   h. What is mobile agent computing?

   i. Enlist the important characteristics of MANETs.

   j. Name various routing protocols used in MANETs.

SECTION-B

2. Explain the channel structure in GSM.

3. Discuss the concept of packet delivery in Mobile IP.

4. What is Bluetooth? What are the advantages and disadvantages of Bluetooth?

5. Explain the architecture of Wireless Application Protocol.

6. Explain the role of mobile agents in computing.

SECTION-C

7. What is Mobile computing? What are various issues in Mobile computing? Explain in detail.

8. What is Traditional TCP? What are the improvements made in Indirect TCP and Snooping TOP? Explain their mechanisms and features.

9. How routing is performed in MANETs? Discuss in detail various routing algorithms used in MANETs.