B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination, 2019

BICSE-014 : MOBILE COMPUTING

Time : 3 Hours]   [Maximum Marks : 70

Note : Attempt any **seven** questions in all. **All** questions carry **equal** marks.

1. (a) Explain the concept of cellular communication in brief. [5]

   (b) What is air interference ? How it can be handled? [5]

2. Explain WAP architecture with the help of a diagram and also list its four features. [10]

3. What is Mobile Agent Computing ? Explain its advantages and security issues. [10]

4. (a) Briefly explain channel structure in GSM. [5]

   (b) What is Blue Tooth technology ? What are the security issues associated with it ? [5]

5. Explain in detail about IEEE 802.11 protocol. [10]

6. Discuss how transaction processing takes place in mobile computing environment with the help of example and suitable diagram. [10]

7. What is AdHoc on demand distance Vector routing ? Explain how it support both unicast and multicast routing. [10]

8. Explain role of HLR and VLR in services of cellular system. [10]

9. What is Mobile IP ? Explain its architecture with the help of a diagram. [10]

10. Write short notes on **any two** of the following :[2x5=10]

    (a) Handoff

    (b) Data Management issue in Mobile Computing.

    (c) Fault Tolerance in Mobile Computing.

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