8E5001

B. Tech. VIII Semester (Main/Back) Examination-2014

Computer Science

8CS1 Mobile Computing

(Common with 8IT4-1, 8CS1)

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 24

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)

Unit - I

1. a) Explain various Adaptability issues related to the mobile computing. (8)
   b) What is mobile computing? Describe Mechanism for adaptation. (8)

   OR

1. a) Explain principle and techniques of Location management in detail. (8)
   b) Describe energy efficient network protocols. (8)

Unit - II

2. a) Discuss the concept of broad cast disk scheduling. (6)
   b) What is mobile web caching? Explain mobile cache maintenance schemes.(10)

   OR

2. a) What are mobile agents? Explain the concept of fault Tolerance using distributed Transactions. (8)
   b) Explain the concept of Reliable Agent transfer also discuss network security testing using mobile agents. (8)

Unit - III

3. Explain various methods for service discovery and standardization in detail. (16)

   OR

3. a) Describe unicast discovery and multi-cast discovery in detail. (10)
   b) Write short note on Garbage collection. (6)

Unit - IV

4. What is Pervasive computing? Describe decentralization diversification. Connectivity, simplicity incorporate to Pervasive computing. (16)

OR

4. a) Give classifications and characteristics of mobile devices. (8)
   b) Describe smart tokens and smart seasons in detail. (8)

Unit - V

5. Explain web service Architecture in detail also describe web Services. (10)

OR

5. Explain following:
   a) Portal Infrastructure
   b) DECT standard
   c) IMT - 2000 standard.
   d) Web service security. (4×4)