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8E5001

Roll No. : \_\_\_\_\_

Total Printed Pages : **2**

**8E5001**

**B. Tech. (Sem. VIII) (Main) Examination, April/May - 2012**  
**Computer Science**  
**8CS1 Mobile Computing**

Time : 3 Hours]

[Total Marks : 80  
[Min. Passing Marks : 24

*Attempt any five questions.*  
*Selecting one question from each unit. All questions carry equal marks. Schematics diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.*

*Unit of quantities used/calculated must be stated clearly.*

Use of following supporting material is permitted during examination.  
(Mentioned in form No. 205)

1. \_\_\_\_\_ Nil \_\_\_\_\_ 2. \_\_\_\_\_ Nil \_\_\_\_\_

**UNIT - I**

- 1 (a) Define Mobile Computing. Explain Mechanism for adaptation and incorporation adaptations.  
(b) What are the issues in Mobile computing ? Explain in detail. 8+8

OR

- 1 (a) How location Management is identified in HLR-VLR and in Channel allocation in cellular system.  
(b) Describe energy efficient indexing on air and algorithm. 8+8

**UNIT - II**

- 2 Describe Caching Management in Mobile, cache management schemes and Mobile web Caching. 16

OR



- 2 (a) Explain Mobile agent security and fault tolerance using distributed transaction.  
(b) Explain architecture of secure agent system.

8+8

### UNIT - III

- 3 (a) What is Services discovery and Standardization method ?  
(b) Describe unicast discover, multicast discovery and advertisement.

8+8

OR

- 3 Define following terms :  
(i) Garbage collection  
(ii) Service catalogs  
(iii) Eventing  
(iv) Universal plug n play.

4×4

### UNIT - IV

- 4 Explain mobile devices along with their classification, characteristics and limitation.

16

OR

- 4 What is smart identification ? Explain its various types.

16

### UNIT - V

- 5 Write short notes on : (any two)  
(i) Web Services Description language  
(ii) Web Service Security  
(iii) IrDA Architecture and Protocol stack.

2×8=16

