

<b>8E8161</b>	Roll No. _____	[Total No. of Pages : 2]
	<div style="border: 1px solid black; display: inline-block; padding: 2px 10px;"><b>8E8161</b></div> <b>B.Tech. VIII Semester (Main) Examination, May 2016</b> <b>Computer Science &amp; Engineering</b> <b>8CS1A Mobile Computing</b> <b>Common with 8IT4.1</b>	

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) Discuss principles and techniques of location management in regards of mobile computing (8)
- b) What do you mean by mobile computing? Explain it with various adaptability issues (8)

**OR**

1. a) What is mobility management? Describe mechanism for adaptation (8)
- b) Discuss public communication services location management with suitable example (8)

**Unit - II**

2. a) Describe caching management in mobile and cache management schemes(8)
- b) What do you mean by data dissemination and explain its model (8)

**OR**

2. a) Explain operation of mobile IP. Why tunneling is used in mobile IP (8)
- b) Explain mobile agent security and fault tolerance using distributed transactions (8)

**Unit - III**

3. Write short notes on the following

- a) Unicast discovery
- b) Multicast discovery
- c) Advertisement
- d) Garbage collection

(4×4)

**OR**

3. What do you mean by service discovery and standardization? And also explain various methods of service discovery (16)

**Unit - IV**

4. What is pervasive computing ? Discuss the concept of decentralization diversification and also explain principles of pervasive computing (16)

**OR**

4. Explain the system architecture of World Wide Web with proper diagrammatic presentation and describe various web services (16)

**Unit - V**

5. Describe Destination Sequenced Distance Vector routing (DSDV) and Ad HOC on demand distance vector routing (AODV) in detail (16)

**OR**

5. Write short note on the following

- a) Portal infrastructure
- b) DECT standard
- c) Global State Routing (GSR) & Dynamic Source Routing (DSR)
- d) Temporary Ordered Routing Algorithm(TORA)

(4×4=16)