8E5001

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[Total No. of Pages:

# B.Tech. VIII Semester (Main/Back) Examination - 2013 Computer Science

**8CS1 Mobile Computing (Common for 8IT4.1)** 

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) What is mobile computing and challenges against mobile computing? (8)
  - b) Explain mechanisms for adaptation and incoperating adaptation.

## OR

- 1. a) Discuss public communication services location management with suitable example? (8)
  - b) Explain Energy efficient indexing on air.

#### Unit - II

- 2. a) What is data dissemination and explain its model? (8)
  - b) Explain Broadcast disk scheduling.

#### OR

- 2. a) Explain mobile agent security and fault tolerance using distributed transactions?
  - (8)

(8)

(8)

(8)

b) Discuss caching management in mobile and cache management schemes. (8)

### Unit - III

- 3. a) Describe unicast discover, multicast discovery and advertisement? (8)
  - b) What is services discovery and standardization method? (8)

3.	Wr	rite short note on:	
	i)	JINI	
	ii)	Service catalogs	
	iii)	Garbage collection	
	iv)	UPnP (universal plug n play) (4×4=	16)
		Unit - IV	
4.	a)	Define the term "pervasive computing". Write down the principles of pervasion computing.	sive (8)
	b)	What is smart Identification? Explain its various types.	(8)
		OR	. ,
4.	Wri	ite short note on the following:	
	i)	Smart card	
	ii)	Smart sensor and actuators	
	iii)	Smart label rtuonline.com	
	iv)	Smart token (4×4=	16)
		Unit - V	858
5.	Des	scribe IrDA-Architecture and protocol stack?	16)
5.	Wri	ite short note on:	
	i)	Universal description, discovery and integration (UDDI)	
	ii)	Simple Object Access Protocol (SOAP)  (8×2=1)	16)
	,	(6×2=)	10)