[Total No. of Pages: 2

Total No. of Questions: 12]

P958

[3664]-353 B.E. - (I.T.)

MOBILE COMPUTING

(Elective - I) (2003 Course) (414445) Sem 1

Time: 3 Hours]

[Max. Marks: 100

Instructions	to	the	candia	lates:
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- 1) Answer 3 questions from Section I and 3 questions from Section II.
- Answers to the two sections should be written in separate books.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Assume suitable data, if necessary.

SECTION - I

- Q1) a) What do you mean by mobile computing environment? Explain at least 4 application areas where mobile computing environment is used. [8]
 - b) Explain the role of Context Manager and describe it's various informations and relevances in the mobile computing environment. [8]

OR

- Q2) a) Explain various types of mobilities in mobile communication environment.[8]
 - b) Explain the three tier architecture of mobile computing. [8]
- Q3) Explain GSM in the following context.
 - a) General features & frame details. [6]
 - b) Architecture and it's entities in detail. [6]
 - c) Security issues used. [6]

OR

Q4) Write short notes on:

[18]

- a) Bluetooth and it's protocol stack.
- b) Java card.
- c) IPv6.
- Q5) a) Explain various services, applications and limitations of GPRS. [8]
 - b) Explain in detail the WAP protocol stack.

[8]

Q6)	a)	Explain the spread spectrum technologies you know.	8]
	b)	Explain GPRS transmission plane protocol architecture.	8]
		SECTION - II	
Q7)	a)	What are the various issues to be considered in designing the WLA environment.	N 8]
	b)	What are the design constraints in applications for handheld devices?	8]
Q8)	a)	Explain the authentication process in 802.11 framework.	8]
	b)	Explain SS#7 network architecture.	8]
Q9)	a)	Explain the three layers of Palm OS in detail.	8]
	b)	Describe various security issues used in symbian OS.	8]
		OR	
Q10)	a)	Compare J2ME with J2SE or J2EE.	8]
	b)	What are the functions of various layers used in symbian OS architectur	e? 8]
Q11)	a)	Explain the three layers of windows CE architecture.	8]
	b)	Compare SIP and H.323	5]
	c)	Explain SAP/SDP in detail. OR	5]
Q12)	a)	Explain the various components of information security. [1	0]
	b)	Explain various security models used in mobile computing.	8]

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