Total No. of Questions :12]

P800

[4659] - 212 **B. E. (I T) MOBILE COMPUTING** (Elective - II(b)) (2008 Pattern) (Semester - I)

Time : 3 Hours]

Instructions to the candidates:

- Answers 3 questions from Section I and 3 questions from Section II. 1)
- 2) Answers to the two sections should be written in separate answer books.
- 3) Neat diagrams must be drawn wherever necessary.
- Figures to the right indicate full marks. 4)
- 5) Assume suitable data, if necessary.

SECTION - I

Q1)	a)	Explain various generations of Mobile Communication system.	[8]
	b)	What are the three measurements used to decide handoff? What distance dependent fading, shadow fading and Rayleigh fading?	are [8]
		OR	
Q2)	a)	Draw the general PCS architecture and explain it.	[8]
	b)	What is soft hand off? Explain the procedure for adding and remove Base stations with MAHO soft hand off.	ving [8]
Q3)	a)	Explain with diagram A3, A5 and A8 algorithm in GSM.	[8]
	b)	What are different types of addresses and identifiers used in GSM.	[8]
		OR	
Q4)	a)	Compare the authentication procedure in IS-4l and GSM.	[8]
	b)	How is location update done in GSM.	[8]
Q5)	a)	Explain Mobile originated messaging and Mobile terminated messaging	ing. [8]
	b)	Draw and explain SMS protocol stack.	[8]

[Max. Marks : 100

P.T.O.

[Total No. of Pages : 2

SEAT No. :

OR *Q6)* a) What is number portability? Describe three types of number portability. [9] b) Explain in detail Pre Paid & Post Paid service in mobile. [7]

SECTION - II

Q7) a)	Explain Wireless Application Protocol (WAP) model in detail.	[8]
b)	Write short note on Billing and Charging mechanism in GPRS.	[8]
	OR	
Q8) a)	Explain GPRS architecture with neat diagram.	[8]
b)	Compare W-CDMA and CDMA 2000.	[8]
Q9) a)	Explain in detail IP Packet delivery.	[8]
b)	Describe the goals and requirements of Mobile IP.	[8]
	OR	
Q10) a)	Explain Various features and header format of IPv6.	[8]
b)	Explain Dynamic source routing in MANET.	[8]
<i>Q11)</i> a)	Explain in detail Wireless Broad Band (WiMAX) technology.	[8]
b)	Define Bluetooth.	
	Explain in detail Bluetooth technology with protocol stack.	[10]
	OR	
Q12) a)	What are the advantages of Spread Spectrum technology? Explain wdiagram Spread Spectrum Technology.	
b)	Write a short note on: (4 Marks Each)	[8]
	i) RFID	
	ii) W-LAN	

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