Total	No.	of Qu	estions: 1	2]			5	SEAT No. :	:		
P3415					[4959]-189			[Total No. of Pages :			
					E.(Information Technology)						
	MOBILE COMPUTING										
(2008 Course) (Semester-I)(Elective-II)											
Time		_			[Max				Max. Marks :100		
	1) . 2) . 3) . 4) .	Answe Answe Neat a Figure	ers to the t diagrams n es to the r	lates: lestions from lestions s lestions from le	should be v n wherever full marks	written in r necessa	sepai				
SECTION-I											
Q1)	a)	Exp	olain any o	one of the fo	ollowing:				[8]		
		i)	Cordles	s Telephon	У		ii)	DECT			
		iii)	PHS				iv)	PACS			
	b)	Exp	olain in de	tail the con	ncept of fr	equency	reus	e and cells	s splitting. [10]		
						OR					
Q2)	a)			d off mech		Describe	the	three Han	ndoff strategies		
	b)	Hov	w is the re	gistration a	ınd call de	elivery d	one ii	n roaming	? [8]		
Q3)	a)	What are the major parts of an MS in GSM? Describe them. Drawest explain with diagram a GSM architecture.							hem. Draw and [8]		
	b)	Co	mpare the	e authentica	ation prod	cedures	in IS-	41 and G	GSM. [8]		
						OR					

Q4) a)	Explain various databases used in GSM architecture.						
b)	Write short notes on HLR and VLR. [8]						
Q5) a)	Compare between fixed prepaid service and mobile prepaid service?[8]						
b)	Discuss any one solution for reducing the International call delivery cost. [8]						
	OR						
Q6) a)	Describe the solutions for number portability. [8]						
b)	Draw and explain International call setup procedure. [8]						
SECTION-II							
Q7) a)	Compare GPRS with CDPD. What are the fundamental differences between the two services and what are the design guidelines shared by them? [8]						
b)	Describe distillation. Which layer of WAP implement this mechanism.[8] OR						
Q8) a)	Explain in brief caching, pushing and prefetching. What is the impact of these mechanisms on billing? [8]						
b)	Describe in brief GPRS network modes. [8]						
Q9) a)	Explain important processes used in mobile IP. [8]						
b)	What advantages the IPv6 offer for mobility? Discuss. [8]						
	OR						
Q10) a)	Describe how the data transfers from mobile node to a defined node and vice versa. [8]						
b)	Explain the following routing protocol in MANET: destination sequence distance vector, dynamic source routing. [8]						

Q11) a) Define Bluetooth. Explain Bluetooth protocol stack. [10]

b) Explain with diagram Spread Spectrum Technology. [8]

OR

Q12) Write short notes on any three:(6 marks each) [18]

- a) UMTS.
- b) Wi-Max
- c) RFID
- d) Java Card



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