Total No	. of Questions : 6]	SEAT No. :	
P110		[Total No. of Pages : 2	
	APR - 18/BE/Insem		
	B.E. (Information Techno	ology)	
	MOBILE COMPUTI	NG	
	(Semester - II) (Elective - III) (2012 C	Course) (414463A)	
		, ,	
Time: 1		[Max. Marks : 30	
	ons to the candidates:		
1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.		
2) 3)	Neat diagrams must be drawn wherever necessary Figures to the right side indicate full marks.	<b>y.</b>	
4)	Assume suitable data, if necessary.		
<b>Q1)</b> a)	Explain in detail three Strategies for Hand	oof Detection. [5]	
b)	Describe the distinction between the foll	0.	
0)	PLMN, MSC, LA and Cells.	[5]	
	OR	,	
<b>Q2)</b> a)	Describe the basic cellular system and the	concept of frequency reuse.	
~ /		[5]	
b)	Define handoff. Brief inter-Base Station handoff process with example.		
	CY &5.	[5]	
		.^.	
<b>Q3)</b> a)			
	originated messaging and GSM call-origin	D	
b)	What is the role of AuC? How is AuC wo	rk in a GSM network? [6]	
	OR	16,00	
<b>Q4)</b> a)	Give some intuitive reasoning why the cap		
	than their analog predecessor does. State	the main functions of: [6]	
	i) BTS and BSC,	5	
	ii) MSC/GMSC,		
	iii) OMC and	9.	
	iv) NMC.	12	

What are the HLR and VLR? Describe HLR and VLR in Call Routing

Roaming.

[4] P.T.O.

Q5)	a)	Exp	olain SM-TL and SM-RL of SMS protocol stack in detail.	[4]
	b)	Exp	plain each of the following in brief:	[6]
		i)	Operator Independent Push.	
		ii)	Operator Independent Pull.	
		iii)	SMS Gateway.	
			OR	
Q6)	a)		at are various strengths of SMS? Explain all of them. Also stathe applications areas where these strengths can be used?	ate what
	b)	Exp	lain the difference between SMMT and SMMO. (SMS Archit	
				[5]
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