Tota	l No.	of Questions : 10] SEAT No. :
P31	189	[Total No. of Pages : 2
		[5354]-706
		B.E. (Information Technology)
		MOBILE COMPUTING
		(Elective - III) (2012 Pattern) (Semester - II)
Time	$2:2\frac{1}{2}$	[Max. Marks :70
		ons to the candidates:
	<i>1</i>)	Answer Q1. or Q.2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.
	<i>3</i>)	Figures to the right side indicate full marks.
	<i>4</i>)	Assume suitable data if necessary.
		\$5.
01)	- \	Foundation that Coff hand off and Hand World Complete vision [14]
<i>Q1</i>)	,	Explain the Soft handoff and Hard handoff mechanism. [4]
	b)	Draw and explain Mobile computing architecture. [5]
		OR OR
<i>Q</i> 2)	a)	Explain mobility management in GSM Architecture. [4]
~	b)	Explain 1G, 2G, 2.5G and 3G. [5]
Q3)	a)	Explain role of SM-SC with diagram. [5]
	b)	Explain HLR, VLR, AUC and EIR in GSM architecture. [5]
		OR
Q4)	a)	Explain in detail VLR Overflow Control. [5]
	b)	Explain with diagram Mobile-Originated Messaging and Mobile
		Terminated Messaging. [5]
		CA GA.
<i>Q5</i>)	a)	How GSM architecture is modified to support GPRS? Explain with
	1 \	diagram. [9]
	b)	Draw and explain WAP architecture. [8]

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Q6) a)	Which are the design guidelines for WAP? Explain the disadvantages of implementing TCP/IP directly over mobile network? [9]
b)	Explain SGSN and GGSN in GPRS with diagram. Explain benefits of GPRS. [8]
Q7) a)	Explain advantages and disadvantages of application to application messaging architecture. [9]
b)	Draw and explain analysis, design and Testing phase of mobile application development. [8]
	OR
Q8) a)	What is major difference between wireless Internet, smart client, and messaging mobile application architectures? [9]
b)	What is a smart client? What are the requirements to deploy smart client applications? How to differentiate between smart client applications and thin client applications? [8]
Q9) a)	What are the challenges in Usability Testing of mobile applications. [9]
b)	Draw flowchart for application life cycle of android. [8]
	OR
Q10)a)	List and describe application components of android. [9]
b)	Explain significance of Dalvik VM and Application framework in Android OS architecture. [8]
	Explain significance of Dalvik VM and Application framework in Android OS architecture. [8]