Seat No.: Enrolment No	Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION - SUMMER 2013

Subj	ect (Code: 170702 Date: 24-05-2013	
Subj	ect l	Name: Mobile Computing	
		2.30 pm - 05.00 pm Total Marks: 70	
Instr			
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(A)	How does a new Bluetooth device discover a Bluetooth network? Describe the security principles in Bluetooth.	(7)
	(B)	*	(7)
Q.2	(A)	What are various strengths of SMS? Explain each of them. Also, state the various applications areas where these strengths can be used?	(7)
	(B)	Explain the following in brief in context of GSM networks: (a) Mobile station (b) BSS (c) NSS (d) OSS (e) IMSI (e) IMEI (f) MSRN OR	(7)
	(B)	In GSM network, explain the role of Network and Switching subsystem.	(7)
Q.3	(A)	What is the difference between GSM and GPRS? What are the network elements in GPRS that area different from GSM? What are the limitations of GPRS.	(7)
	(B)		(7)
Q.3	(A)		(7)
	(B)		(7)
Q.4	(A)	How is MMS different from Short Message Service and Extended Message Service?	(7)
	(B)		(7)
Q.4	(A) (B)	Describe the contrast between 3G and Wi-Fi technologies.	(7) (7)
Q.5	(A)	What are different elements in a VoIP architecture? Discuss the role of such elements.	(7)
	(B)		(7)
Q.5	(A) (B)	What is Mobile IP? Explain the tunneling in context of Mobile IP.	(7) (7)
