Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VII • EXAMINATION – SUMMER 2014

Subject Code: 170702N Subject Name: Wireless Communication and Mobile Programming Time: 02:30pm-05:00pm Instructions: Total Marks: 7			Date: 03-06-2014	
		70		
	1. 2. 3.	Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Explain three tier architecture of conventional mobile computing. Draw the Bluetooth protocol stack and explain the host controller interface.	07 07	
Q.2	(a) (b)	Explain call routing in GSM with block diagram. What is a mobile IP? Explain discovery, registration and tunneling with mobile IP.	07 07	
		OR		
	(b)	What is cellular IP? Establish its relationship with mobile IP.	07	
Q.3	(a) (b)	List and explain the strengths of SMS. Draw and explain GPRS architecture.	07 07	
0.2	(-)	OR Evaloin pouting between DI MNs for CDDS systems	07	
Q.3	(a) (b)	Explain routing between PLMNs for GPRS system. What is WAE? Draw its model with client, gateway and server.	07 07	
Q.4	(a) (b)	Discuss the WAP gateway for coding and encoding. What is spread spectrum technology? Compare it with narrow band. OR	07 07	
Q.4	(a)	How authentication is possible in wireless LAN? List and discuss the possible attacks on such networks.	07	
	(b)	Define Mobile Ad hoc Networks. Discuss its characteristics and limitations.	07	
Q.5	(a) (b) (c) (d) (e) (f)	Attempt ANY FOUR RFID BSS Handover in GSM Application and tunneling modes in GPRS WiFi v/s WiMax. Role of Mobile Computing OS.	14	
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