GUJARAT TECHNOLOGICAL UNIVERSITY BE SEM-VII Examination-Nov/Dec.-2011

Subject Name: Mobile Computing)ate:	: 22/11/2011	
			otal	l marks: 70	
1.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.				
Q.1	(a)	Explain functional architecture of GSM system. And give different tele-services provided by GSM.	also	07	
	(b)	Explain about indirect & snooping TCP. Also give any advantages of mobile TCP.	two	07	
Q.2	(a)	Explain concept of Bluetooth Architecture. What is		07	
	(b)	difference between infrastructure and ad-hoc networks? Explain functional architecture of GPRS system. What the frequency range of uplink and downlink in Glanetwork?	at is	07	
		OR			
	(b)	Define frequency hopping in spread spectrum? Write Noon TDMA, FDMA, CDMA	ote	07	
Q.3	(a)	What are the possible handover scenarios in GSM? out the numbers needed to locate a Mobile Station an address the Mobile station		07	
	(b)	Draw the mobile computing layer architecture of a car of GPS receiver, WAP, automatic parking lights consmart-card based start and speech recognition. OR		07	
Q.3	(a)	Mention some of the advantages and dis advantages of WLANS? Mention the design goals of WLANS?		07	
	(b)	Explain MANET (Mobile adhoc network) and issues w moving node in network.	rith	07	
Q.4	(a)	Explain RFID and DECT		07	
	(b)	What is VoIP? Compare H.323 and SIP OR		07	
Q.4	(a)	Compare Wifi Vs. 3G and also discuss wireless LAN security issues.		07	
	(b)	Push and Pull in Short Messaging Service		07	
Q.5	(a)	Explain : Routing in IPv6		07	
	(b)	Applications of GPRS and VoIP OR		07	
Q.5	(a) (b)	Explain tunneling and encapsulation in mobile IP. State the requirements of WAP and explain different lay of WAP. What are the advantages of WML Script over WML?		07 07	
