GUJARAT TECHNOLOGICAL UNIVERSITY M.C.A. – SEMESTER-V • EXAMINATION – WINTER 2015

Subject Code: 2650016 Date:10/1			
Subject Name: Wireless Communication MobileTotal MarksTime: 10.30 am to 01.00 pmTotal MarksInstructions:1. Attempt all questions.			
	2.		
Q.1	(a)	What are the different tiers in three-tier architecture? Describe the functions of	07
	(b)	these tiers? What is WiMax? How is it different from WiFi? Explain the WiMax physical layer.	07
Q.2	(a)	Give the full form of the followings: (Any seven) a. PLMN b.GSM c. VHE d. CDMA e. WTLS f. GPRS g. MSRN h. IMEI	07
	(b)	Describe the GSM architecture.	07
	(b)	OR Discuss the protocol Stack of Bluetooth.	07
Q.3	(a) (b)	Explain wireless LAN advantages in detail. Describe the spread-spectrum technology in detail. OR	07 07
Q.3	(a)	What is RFID? Explain active RFID and passive RFID. Also describe two	07
	(b)	applications of active RFID and passive RFID. Explain value added services through SMS in detail.	07
Q.4	(a) (b)	Describe the contrast between 3G and Wi-Fi technologies. What are the different components of Information security?	07 07
		OR	. –
Q.4	(a)	Explain data services in GPRS in detail.	07
	(b)	Give six functional differences between CDMA and GSM.	07
Q.5	(a) (b)	Discuss the IEEE 802.11 family of standards. Explain mobile ad hoc networks and sensor networks in detail.	07 07
		OR	
Q.5	(a) (b)	What is Mobile IP? Explain tunneling in the context of Mobile IP. What are the limitations of IPv4 that are overcome b y IPv6? Discuss.	07 07
