GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER- V • EXAMINATION – Winter 2016

Subject Name: Wireless Communication Mobile Time: 10.30 am to 01.00 pm Total Mar Instructions:		Code:2650016 Date:28/11 /20	Date:28/11 /2016	
		70		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	What are the different tiers in three tier architecture of mobile computing? Describe the functions of these tiers.	07	
	(b)		07	
Q.2	(a) (b)	What are HLR and VLR in GSM? Describe its functions in call routing and roaming.	07 07	
	(b)	OR Explain functional architecture of GPRS system. What is the frequency range of uplink and downlink in GPRS network?	07	
Q.3	(a) (b)	Give functional differences between CDMA and GSM What are AOC and SOC client? Compare AOC and SOC clients OR	07 07	
Q.3	(a) (b)	Explain concerned parameters and benefits of wireless network. State the requirements of WAP and explain different layers of WAP. What are the advantages of WML Script over WML?	07 07	
Q.4	(a) (b)	What is spread spectrum? Write Note on TDMA, FDMA, CDMA. What is middleware? Describe its significance in handling the context of any application.	07 07	
Q.4	(a) (b)	OR Explain Value Added Services Through SMS What is Handoff? Explain Types of Handoff.	07 07	
Q.5	(a) (b)	Explain the architecture of SMS. Write brief notes on: a. CCIPP b. Policy Manager	07 07	
Q.5	(a)	OR Explain the IEEE 802.11 family of standards.	07	
C ¹²	(b)	What do you understand by security algorithms and security protocols? Differentiate between security algorithm and security protocols.	07	
