Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V • EXAMINATION - WINTER • 2014

WICA - SEMIESTER-V • EXAMINATION - WINTER • 2014			
Su	bject	Code: 2650016 Date: 08-12-2014	
Su	bject	Name: Wireless Communication Mobile	
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	2. 3.	·	
Q.1	(a)	Give the full form of Any Seven following. a. CEPT b. GSM c. VLR d. MSISDN h. MAC	07
	(b)	List and Explain GSM Entities.	07
Q.2	(a) (b)	Describe the Protocol Stack of Bluetooth. What are the differences between middleware and gateways? Enunciate with examples in the context of Mobile Computing? OR	07 07
	(b)	Describe the significance of core, edge, and access network. Explain their functions as well.	07
Q.3	(a) (b)	What is a PLMN? How is PLMN connected to PSTN and PDN? Explain the architecture of SMS.	07 07
Q.3	(a) (b)	OR What is M MS? Describe the MMS architecture. What are the different elements in a VoIP architecture where a call is originated in IP through SIP and terminating into an IP phone in an IP network?	07 07
Q.4	(a)	What are the advantages and disadvantages of Wireless LAN? Under what situation is a WLAN desirable over LAN?	07
	(b)	Explain the security framework for mobile computing. How do we ensure security in a mobile environment through Mobile VPN? OR	07
Q.4	(a)	How is data routing done in GPRS? In what respect is data routing different from voice routing?	07
	(b)	Explain the Direct Sequence Spread Spectrum Techniques.	07
Q.5	(a) (b)	Explain WiMAX three layer architecture. Describe the WAP protocol stack while enumerating the functions of different layers.	07 07
Q.5	(a) (b)	OR Compare the WiFi and 3G Technologies Describe CDMA data protocol Slack.	07 07
