Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION – WINTER 2015

Subject Code: 170702N Date: 07/12/2015			
St	ıbject	Name: Wireless Communication and Mobile Programming	
	_	0:30am to 1:00pm Total Marks: 70	
Ins	Instructions:		
		Attempt all questions.	
	2.	The state of the s	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	What is GSM? Explain how a call is routed in GSM with diagram.	07
•	(b)	What is Internet Content Adaption Protocol (ICAP)? Explain its significance in communication applications.	07
Q.2	(a)	Establish the relationship between PLMN and GPRS. Explain it using block diagram.	07
	(b)	What is CDMA? Explain the orthogonal codes for it. OR	07
	(b)	How mobile IP works? Explain tunneling with mobile IP.	07
Q.3	(a)	What is MANET? List its protocols and explain any one in detail.	07
	(b)	Discuss security issues with wireless networks.	07
0.2	()	OR	0=
Q.3	(a) (b)	Explain Wi-Fi and Wi-Max technology in detail. Also discuss the differences. What is frequency hopping in spread spectrum? Explain TDMA in detail	07 07
Q.4	(a)	Explain the functionality of HLR and VLR in call routing.	07
	(b)	What is RFID? Differentiate active and passive RFID with diagrams.	07
0.4	(a)	OR	07
Q.4	(a) (b)	Explain PUSH and PULL short messaging service in detail Explain WAE with its model with client, gateway and server.	07
^ -	(10)		
Q.5	(-)	Attempt ANY FOUR Physics of h Protection Street	14
	(a) (b)	Bluetooth Protocol Stack IPv6	
	(b) (c)	Piconet in Bluetooth	
	(d)	Message Oriented Middleware	
	(e)	Session Initiation Protocol (SIP)	
	(f)	2G v/s 3G	