Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII(OLD) • EXAMINATION – WINTER 2016

Subject Code: 170702N Date: 01/12/2016 Subject Name: Wireless Communication & Mobile Programming (w.e.f			
June			
	e: 10 ction 1. 2.	:30 AM to 01:00 PM s: Attempt all questions. Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	What is mobile computing? Explain the mobile computing functions in detail.	07
	<b>(b)</b>	Draw and explain the three tier architecture of mobile computing.	07
Q.2	(a)	Explain call routing in GSM.	07
	<b>(b)</b>	Draw and explain the Bluetooth protocol stack.  OR	07
	<b>(b)</b>	What do you mean by mobile IP? How does mobile IP work?	07
Q.3	(a)	What is a PLMN? How is a PLMN connected to PSTN and PDN?	07
	<b>(b)</b>	Explain the value added services through SMS.	07
		OR	
Q.3	(a)	Explain the followings:  (i) Indirect TCP  (ii) Mobile TCP	07
	<b>(b)</b>	Explain the handover procedure in GSM system.	07
Q.4	(a)	Describe the applications for GPRS.	07
	<b>(b)</b>	Explain the limitations of GPRS.	07
		OR	
Q.4	(a)	What is the difference between GSM and GPRS? What are the network elements in GPRS that are different from GSM?	07
	<b>(b)</b>	Explain the data routing in GPRS.	07
Q.5	(a)	Write a short note on: WAP	07
	<b>(b)</b>	Explain 3G networks. How is a 3G network different from a 2G CDMA network?	07
		OR	
Q.5	(a) (b)	What is MMS? Describe the MMS architecture. Explain H.323 framework for voice over IP.	07 07

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