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 2012)			
		2:30 AM to 01:00 PM Total Marks: 70	
Instru	1.	s: Attempt all questions. Make suitable assumptions wherever necessary. 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.  OR	07
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.  OR	07
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>	network?	07
0.5		OR	^=
Q.5	(a) (b)		07 07