

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII EXAMINATION – WINTER 2015

Subject Code: 170702

Date: 07/12/2015

Subject Name: Mobile Computing

Time: 10:30am to 1:00pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a)	Explain different types of Mobile Operating Systems . Give architecture of Mobile Computing.	07
	(b)	What are the advantages of mobile applications? How existing application can be made mobile enabled? Explain	07
Q.2	(a)	Explain routing in mobile network?	07
	(b)	What is Cellular network? Explain GSM architecture in detail.	07
		OR	
	(b)	Compare : CDMA and GSM	07
Q.3	(a)	Explain Call routing in GSM network.	07
	(b)	Explain value added services through SMS.	07
		OR	
Q.3	(a)	Explain : Indirect TCP and Mobile TCP	07
	(b)	Explain : Handover , Authentication and Security in GSM	07
Q.4	(a)	Explain Routing in Mobile Adhoc Network in detail.	07
	(b)	Explain IEEE 802.11 standards in details.	07
		OR	
Q.4	(a)	Compare : H.232 and SIP	07
	(b)	Explain GPRS operations with its architecture.	07
Q.5	(a)	Discuss Billing and Charging in GPRS network.	07
	(b)	Explain : Blue tooth and RFID	07
		OR	
Q.5	(a)	Explain : Spread Spectrum and WAP	07
	(b)	Compare : IP and Mobile IP.	07