Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VII • EXAMINATION – SUMMER 2015

Subject Code:170702 **Date:08/05/2015**

Subject Name: Mobile Computing

Time:2.30pm-5.00pm **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)**	Discuss data services in GPRS. Describe applications suitable for GPRS.	**07**
	(b)	Describe MMS in detail.	**07**
Q.2	**(a)**	Explain Wireless LAN standards and Wireless LAN architecture.	**07**
	(b)	Explain architecture of Mobile Computing and also discuss security issues in Mobile Computing.	**07**
		OR	
	(b)	Explain: Blue tooth and RFID.	**07**
Q.3	**(a)**	How does the Mobile IP work? Explain its architecture.	**07**
	(b)	Explain call routing in the context of GPRS networks.	**07**
		OR	
Q.3	**(a)**	Explain in detail Direct Sequence Spread Spectrum (DSSS).	**07**
	(b)	Explain Mobile Computing over SMS. Also explain pull and push SMS.	**07**
Q.4	**(a)**	Describe symmetric key cryptography and public key cryptography.	**07**
	(b)	Explain: Indirect TCP and Mobile TCP.	**07**
		OR	
Q.4	**(a)**	What is Walsh function? Explain it for CDMA orthogonal codes.	**07**
	(b)	Describe the contrast between 3G and Wi-Fi technologies.	**07**
Q.5	**(a)**	Describe IPV6 in detail.	**07**
	(b)	Discuss Billing and Charging in GPRS network.	**07**
		OR	
Q.5	**(a)**	Explain snooping TCP and mobile TCP.	**07**
	(b)	Explain three tier architecture of Mobile Computing.	**07**

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