GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– VII• EXAMINATION – WINTER 2014

Subject Code:170702   **Date: 02/12/2014**
Subject Name: Mobile Computing
Time:10:30am TO 01:00 pm   **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 in detail: Strengths of SMS	**07**
	(b)	Discuss data services in GPRS. Describe applications suitable for GPRS.	**07**
Q.2	**(a)**	Describe MMS in detail.	**07**
	(b)	Describe design considerations for Mobile Computing.	**07**
		OR	
	(b)	Draw and explain the mobile computing architecture.	**07**
Q.3	**(a)**	Discuss the difference between H.323 and SIP.	**07**
	(b)	Explain in detail Direct Sequence Spread Spectrum (DSSS).	**07**
		OR	
Q.3	**(a)**	What are the different real-time protocols available for real-time data transmission over IP? Explain each of them.	**07**
	(b)	Describe Wireless LAN advantages. Also explain mobility in wireless LAN.	**07**
Q.4	**(a)**	Explain Bluetooth Protocol Stack.	**07**
	(b)	Describe symmetric key cryptography and public key cryptography.	**07**
		OR	
Q.4	**(a)**	Draw and explain 3GPP Security architecture.	**07**
	(b)	How does Mobile IP works? Also briefly explain Mobile Computing OS.	**07**
Q.5	**(a)**	Draw and Explain Call routing for a mobile terminating call in GSM.	**07**
	(b)	Describe the contrast between 3G and WiFi technologies.	**07**
		OR	
Q.5	**(a)**	Describe IPV6 in detail.	**07**
	(b)	Explain snooping TCP and mobile TCP.	**07**

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