Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER – VII • EXAMINATION – WINTER 2012

Subject code: 170702 **Date: 31/12/2012**

Subject Name: Wireless Communication & Mobile Programming

Time: 10.30 am – 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 Physical and Logical architecture of wireless Communication.	**07**
	(b)	Explain wireless TCP and differentiate Indirect TCP, Snooping TCP and Mobile TCP.	**07**
Q.2	**(a)**	Explain Abstract Mobility Management Model.	**07**
	(b)	List out GSM Specification and explain functional architecture of GSM.	**07**
		OR	
	(b)	Explain Different types of GSM Channels.	**07**
Q.3	**(a)**	Explain mobile originated call and mobile terminated call procedure.	**07**
	(b)	Explain design consideration for mobile computing and benefits of mobile computing	**07**
		OR	
Q.3	**(a)**	Explain Push and Pull In Short Messaging Services.	**07**
	(b)	Explain architecture of IEEE 802.16 standard.	**07**
Q.4	**(a)**	Explain the GPRS functional architecture and application.	**07**
	(b)	Differentiate CDMA technology and GSM technology.	**07**
		OR	
Q.4	**(a)**	Explain different types of Propagation Mode.	**07**
	(b)	Explain Difference Between H.323 and SIP	**07**
Q.5	**(a)**	Explain MANET and issues with moving node in network.	**07**
	(b)	Explain 3GPP security architecture.	**07**
		OR	
Q.5	**(a)**	Explain Wireless LAN security issues and also explain hidden & exposed terminal problem in wireless LAN.	**07**
	(b)	I) Explain different types of security attack. II) Difference between SOC and AOC client.	**07**

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