Seat No.: _____

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GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER: VII – EXAMINATION – WINTER 2014

Subject Code: 170702N Date: 02 / 12 / 201			
Su Ti In	bject N me: 1(structio	Iame: Wireless Communication & Mobile Programming D:30 AM to 01:00 PM Total Marks: 70 Dons:	
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	What is piconet and scatternet? Explain both in brief with appropriate diagrams. Explain functional architecture of GSM.	07 07
Q.2	(a) (b)	Explain the GPRS functional architecture and its application. Explain SMMT & SMMO.	07 07
	(b)	OR Write a comparison between H.323 and SIP.	07
Q.3	(a) (b)	Explain the handover procedure in GSM system. Why conventional network IP is not suitable for mobile environment? Describe the way in which Mobile IP works?	07 07
0.2		OR What is CDMA technology? Explain the Direct Sequence Spread Spectrum	07
Q.3	(a)	Techniques.	07
	(b)	Explain the WAP Layered architecture and protocol stack.	07
Q.4	(a)	Explain the following TCP variants 1. Indirect TCP 2. Supervise TCP	07
	(b)	Explain the IPv6.	07
Q.4	(a)	List Wireless LAN security issues and What do you understand by hidden & exposed terminal problem in wireless LAN.	07
	(b)	Draw and Explain Transmission Plane Protocol Architecture of GPRS.	07
Q.5	(a)	Define active RFID and passive RFID? Describe applications of active & Passive RFID.	07
	(b)	Write Note on Signaling Protocol Structure in GSM	07
0.5	(a)	OR How the packets are routed in GPRS Explain GPRS packet routing for Inter & Intra	07
~~~	( <b>u</b> )	PLMN.	07
	(b)	<ul> <li>Explain following : <ol> <li>Draw: Cellular Structure. [Marks : 1]</li> <li>Justify: Cell shape is Hexagon. [Marks : 2]</li> <li>How to reuse the limited frequency band in cellular architecture [Marks : 4]</li> <li>[Explain Diagrammatically. Make following assumption: Frequency Band : 100-170 Cluster Size : 7]</li> </ol></li></ul>	07

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