Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

		M.E –I ³¹ SEMESTER–EXAMINATION – JULY- 2012		
Subject code: 715303N Date: 09/07		ode: 715303N Date: 09/07/2	/2012	
Subje	ect N	Name: Wireless Networks and Mobile Computing		
Fime: 2:30 pm – 05:00 pm Total Marks			: 70	
Instr	ucti	ons:		
1.	Atte	empt all questions.		
		ke suitable assumptions wherever necessary.		
3.	Figu	res to the right indicate full marks.		
Q.1	(a)	Explain Issues related to Mobility Support in IEEE 802.11 WLAN	07	
	(b)	Explain QoS support & Limitation of IEEE 802.11	07	
Q.2	(a)	Explain the various PHY/MAC attributes that can be used to improve network capacity in Wireless Mesh Network.	07	
	(b)	Compare IEEE 802.11a/ IEEE 802.11a b/ IEEE 802.11a g	07	
		OR		
	(b)	What are the advantages of Bluetooth?	07	
Q.3	(a)	Compare Multi-Channel MAC (MMAC) & Asynchronous Multi- Channel	07	
		Co-ordination Protocol (AMCP) with respect to Channel Diversity in		
	- ·	Wireless Mesh Network.		
	(b)	Explain Multi-Channel Routing (MCR) routing protocol for Wireless Mesh Network.	07	
		OR		
Q.3	(a)	Explain Multi-Radio Link Quality Source Routing (MR-LQSR) routing protocol for Wireless Mesh Network.	07	
	(b)	Draw & explain basic block diagram of Wireless Mesh Network.	07	
Q.4	(a)	Explain various connecting modes of Bluetooth. Explain Bluetooth Scatternet with five piconets.	07	
	(b)	Explain scheduling in Bluetooth networks.	07	
	(~)	OR	0.	
Q.4	(a)	What is the need of Self routing in Bluetooth Network? Explain in detail.	07	
	(b)	Discuss TCP performance issues in Bluetooth piconet.	07	
Q.5	(a)	Explain Wireless network security issues.	07	
	(b)	Explain Mobile computing and its applications.	07	
		OR		
Q.5	(a)	Classify different Wireless networks on the basis of supported data rates.	07	
	(b)	Design a High Capacity Bluetooth Access point for interference elimination.	07	
