Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – I • EXAMINATION – WINTER 2012

Subject code: 710206N		de: 710206N Date: 16-01-2013	,
•		ame: Wireless Computer Networks	
		30 pm – 05.00 pm Total Marks: 70	
Instr			
	2. N	ttempt all questions. Iake suitable assumptions wherever necessary. igures to the right indicate full marks.	
Q.1	(a)	Explain following term with respect to wireless networks: (i) Diffraction (II) Scattering (iii) frequency hopping (iv)Cochannel interference (v) handoff	07
	(b)	Write a short note on following I. Direct Sequence Spread Spectrum Technique II. Frequency hopping Spread Spectrum Technique	07
Q.2	(a) (b)	Describe digital cellular transmission model Explain the following Access Methods for Wireless LANs: I. CSMA CA as adopted by 802.11 II. RTS/CTS supported by 802.11. OR	07 07
	(b)	Explain importance and significance of Mobile IP	07
Q.3	(a)	Write short note on following I. Cell Splitting II. Lee's Microcell method	07
	(b)	Discuss the power control mechanisms in cellular systems. OR	07
Q.3	(a) (b)	Explain different cell type in cellular hierarchy in detail Explain IEEE 802.11 standard in detail	07 07
Q.4		Describe steps for planning a network for CDMA systems Explain GPRS System architecture, its location and handoff managements	07 07
Q.4 Q.4	(a) (b)	OR Compare GSM and CDMA standards in detail Explain security requirement in wireless network	07 07
Q.5	(a) (b)	Write a note on WiMax and discuss its advantage What is ad- hoc network? Compare the ad-hoc and infrastructure network topologies	07 07
Q.5	(a)	OR What is Bluetooth? Explain concept of Bluetooth Architecture, protocol stack.	07
	(b)	Explain Wireless geo-location system architecture	07
