Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject code: 710309N		ode: 710309N Da	Date: 16-01-2013	
Subj	ect N	ame: Industrial Data Communication		
Time: 02.30 pm – 05.00 pm		30 pm – 05.00 pm T	Total Marks: 70	
Inst	ructio	ons:		
		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
	3. F	Figures to the right indicate full marks.		
Q.1	(a)	Compare OSI and TCP/IP reference Models.	07	
	(b)	Explain checksum method for error-detection.	07	
Q.2	(a)	Explain GSM for Mobile Communication.	07	
	(b)	Explain Time Division Multiplexing.	07	
		OR		
	(b)	Explain Electromagnetic Spectrum in detail.	07	
Q.3		Explain Go Back n protocol.	14	
		OR		
Q.3		Explain Finite State Machine Models for Protocol Verific	eation. 14	
Q.4	(a)	Explain MACA and MACAW for wireless LANs.	07	
	(b)	Explain Bluetooth architecture along with its applications OR	. 07	
Q.4	(a)	Explain in detail a bit-map protocol.	07	
Q.4	(b)	Explain Fast Ethernet in detail.	07	
Q.5	(a)	Explain Distance Vector routing in detail.	07	
	(b)	Explain in detail how routing is carried out in Adhoc network OR	vorks. 07	
Q.5	(a)	Explain Hierarchical Routing in detail.	07	
	(b)	Explain Leaky Bucket algorithm in detail.	07	
