GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – I • EXAMINATION – SUMMER • 2014

		code: 710309N Date: 24-06-2014	
Subject Name: Industrial Data CommunicationTime: 02:30 pm - 05:00 pmTotal Marks: 70			
 Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 			
Q.1	(a) (b)	Explain connection-oriented and connectionless services with suitable examples. Compare OSI and TCP/IP reference Models.	07 07
Q.2	(a) (b)	Write short note on Ethernet cabling. Explain D-AMPS for second generation mobile phones. OR	07 07
	(b)	Explain CDMA technology used for mobile communication in detail.	07
Q.3	(a) (b)	Explain Go back N protocol in detail. Explain simplex stop and wait protocol. OR	07 07
Q.3	(a) (b)	Write short note on Petri net models. Explain sliding window protocol in detail.	07 07
Q.4	(a) (b)	Explain CSMA with collision detection. Explain switched Ethernet with its example. OR	07 07
Q.4	(a) (b)	Explain the frame structure of 802.11 protocol. What is Bluetooth? Explain its architecture with applications.	07 07
Q.5	(a) (b)	Explain Distance vector routing with its count to infinity problem. Give comparisons between virtual-circuit and datagram subnets. OR	07 07
Q.5	(a) (b)	Explain different congestion prevention policies. Explain hop-by-hop choke packets in detail.	07 07
