GUJARAT TECHNOLOGICAL UNIVERSITY
M.E Sem-I   Examination January 2010

Subject code:710309
Subject Name: Industrial Data Communication

Date: 27/ 01 / 2010   Time: 12.00-2.30pm
                                                         Total Marks: 60

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain distance vector routing and associated issues.	**08**
	(b)	Explain routing for mobile host in brief.	**04**
Q.2	**(a)**	Explain 802.11 protocol stack in brief.	**06**
	(b)	Explain Hidden and exposed station problem of wireless protocol.	**06**
		OR	
	(b)	Explain the frame structure of 802.16 protocol.	**06**
Q.3	**(a)**	Explain in detail about Gigabit Ethernet.	**06**
	(b)	Explain Hierarchical routing in brief.	**06**
		OR	
Q.3	**(a)**	Explain Wavelength division multiple access protocol.	**06**
	(b)	Explain framing with respect to data link layer	**06**
Q.4	**(a)**	Explain the difference between leaky bucket algorithm and token bucket algorithm	**06**
	(b)	Explain in brief about polynomial code check sum.	**06**
		OR	
Q.4		Explain CDMA technology for mobile communication in detail.	**12**
Q.5		Explain in detail about two different scenario for one bit sliding window protocol	**12**
		OR	
Q.5		Explain in detail about GSM and its frame structure for mobile communication	**12**

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