Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – I • EXAMINATION – WINTER • 2013

Su	bject	t code: 710309N Date: 06-01-2014	
Su	bject	t Name: Industrial Data Communication	
Tiı	me: 1	10.30 am – 01.00 pm Total Marks: 70	
Ins	struc	ctions:	
		. Attempt all questions.	
	2. 3.	· · · · · · · · · · · · · · · · · · ·	
	3.	rigures to the right indicate run marks.	
Q.1	(a)	Explain simplex stop and wait protocol in detail.	07
	(b)	Explain sliding window protocol in detail.	07
Q.2	(a)	Explain HDLC (High-level data link control) in detail.	07
	(b)	Give explanation on static channel allocation in LANs and MANs	07
		OR	
	(b)	Give explanation on dynamic channel allocation in LANs and MANs	07
Q.3	(a)	Explain slotted ALOHA in detail.	07
	(b)	Explain CSMA with collision detection in detail	07
		OR	
Q.3	(a)	Explain limited contention protocol in detail.	07
	(b)	Explain wavelength division multiple access protocols	07
Q.4	(a)	Give explanation on Ethernet cabling in detail.	07
	(b)	Explain Manchester encoding in detail.	07
Q.4	(a)	OR Explain switched Ethernet in detail.	07
Ų.4	(a) (b)	Explain fast Ethernet in detail.	07
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Q.5	(a)	Explain 802.11 MAC sublayer protocol in detail. Give comparisons between virtual-circuit and datagram subnets.	07 07
	(b)	OR	U/
Q.5	(a)	Explain shortest path routing in detail.	07
•	(b)	Explain Distance vector routing in detail.	07
