GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – I • EXAMINATION – WINTER 2012

Subject code: 712604N Date: 10-01-201 Subject Name: Computer Communication and Networking			
Time: 02.30 pm – 05.00 pm Total Ma Instructions:			rks: 70
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain the different computer network functions Explain the OSI reference model with diagram.	07 07
Q.2	(a)	Give the HDLC frame format and explain the bit stuffing scheme is used. Also give the control field format of the different types of frames used.	07
	(b)		07
	(b)	OR Define physical topology. Explain all topologies with its advantages and disadvantages	07
Q.3	(a)	What are the advantages of digital communication over analog communication	07
	(b)		07
		OR	
Q.3	(a) (b)	Explain Guided media Vs Unguided media Generate the CRC code for the data word of 1100 10101.The divisor is 10101.	07 07
Q.4	(a) (b)	Compare IEEE 802.11a/b/g Standards Explain UDP in details. OR	07 07
Q.4	(a)	Write short note on (1) http (2)www	07
Q.4	(b)	Describe the various parts of e-mail address and show the process of sending and receiving e-mails.	07
Q.5	(a)	What are the differences between packet switching and circuit switching?	07
	(b)	Write short notes on (1) Bluetooth.(2) Ad hoc Network OR	07
Q.5	(a) (b)	Explain the working of DSN. Describe Public Key Cryptography	07 07
