GUJARAT TECHNOLOGICAL UNIVERSITY B. E. - SEMESTER – VII • EXAMINATION – WINTER 2012

Subject code: 170307Date: 28/12/2012Subject Name: Image Processing (Department Elective-I)Time: 10.30 am - 01.00 pmTotal Marks: 70Instructions:1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a)		07
	(b)	system. Explain Basic Gray Level (Intensity) transformation.	07
Q.2	(a)	What is Histogram? Draw histogram patterns of Dark, Bright, Low and High contrast Image. Also discuss significance of histogram processing.	07
	(b)	Explain Piece-wise Linear (Contrast stretching, Gray level slicing, Bit plane slicing) Transformation.	07
	(b)	OR Explain Zooming and Shrinking Digital Images.	07
Q.3	(a) (b)		07 07
Q.3	(a) (b)	Explain Homomorphic Filtering.	07 07
Q.4	(a) (b)		07 07
Q.4	(a)	Write difference between Image Restoration and Image Enhancement. Draw Image degradation and restoration model. Also write expressions of any four Noise models.	07
Q.4	(b)		07
Q.5	(a) (b)	Explain Huffman coding.	07 07
Q.5	(a) (b)	•	07 07
