GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER-II EXAMINATION – SUMMER 2015

Subject Code: 2722610			Date: 30/05/2015	
Ti	me: (tructio	ons:	otal Marks: 70	
	1. 2. 3.	· · · · · · · · · · · · · · · · · · ·		
Q.1	(a) (b)	Explain 1 st order edge detection technique with required sketch. What are group operators for Image Processing? Give their Names and explain template convolution in detail.		07 07
Q.2	(a) (b)	Explain background estimation by mean and median filtering. Explain Erosion and Dilation operations with examples.		07 07
		OR		
	(b)	Write down the logical code for Gaussian template for averaging.		07
Q.3	(a) (b)			07 07
		OR		
Q.3	(a)		Non-maximum	07
	(b)	suppression and hysteresis thresholding with figure. Give steps for Canny edge detection Operation. Explain suppression and hysteresis thresholding with figure.	Non-maximum	07
Q.4	(a) (b)	Explain Scale Invariant Feature Transform. Brief about techniques for motion detection.		07 07
		OR		
Q.4	(a) (b)	Write down logical steps for greedy algorithm. Describe Geometry Hough Transform.		07 07
Q.5	(a) (b)	Write down short note on Digital water marking. Discuss about any basic compression Models.		07 07
		OR		
Q.5	(a) (b)	Brief about 3D sources of data and slicing the data set. Discuss about Template matching for shapes.		07 07
