Seat No.: _____

Enrolment No._____

•	ect C	GUJARAT TECHNOLOGICAL UNIVERSITYME – SEMESTER – I (New)– EXAMINATION – WINTER-2019Code: 3710506Date: 06-01-2020Jame: Advance Image Processing	
•	Time: 02:30 PM TO 05:00 PM Total Marks: 70		
Instru			
	2. N	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	What is Histogram? Explain Histogram equalization. Explain statistical operators for image processing in brief.	07 07
Q.2	(a) (b)	Explain Prewitt and Sobel edge detection operators. Give comparison of various edge detection operators. OR	07 07
	(b)	Explain Laplacian of Gaussian operator.	07
Q.3	(a)	Explain the concept of Phase congruency technique and justify how it is better	07
	(b)	compared to conventional edge detector techniques. Explain shape extraction by thresholding and subtraction method.	07
Q.3	(a) (b)	Explain basic concept of snakes. Define greedy algorithm for snakes in brief Explain Generalized Hough Transform (GHT) in detail.	07 07
Q.4	(a)	Explain basic region descriptors in detail.	07
	(b)	Explain slicing the data set for 3D visualization. OR	07
Q.4	(a) (b)	Define Texture. Explain different texture descriptor techniques in brief. Explain Image segmentation in detail.	07 07
Q.5	(a) (b)	Write difference between volume imaging and sections. Explain high resolution tomography.	07 07
Q.5	(a) (b)	OR Explain defects in reconstructed images. Explain the concept of stereo viewing in detail.	07 07