Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII(NEW) • EXAMINATION – WINTER 2016

	U	t Code:2173210 Date:25/11/20)16
Tiı	me:1 tructio	Attempt all questions. Make suitable assumptions wherever necessary.	70
Q.1	(a)	Draw the structure of human eye and Explain in detail.	07
	(b)	Explain point processing in detail for Spatial domain.	07
Q.2	(a)	Explain block diagram of Image processing.	07
	(b)	Explain Butterworth Low Pass filter in frequency domain.	07
		OR	0.
	(b)	Write MATLAB code for Gaussian High Pass filter in frequency domain.	07
Q.3	(a)	Define histogram. Also explain histogram equalization with suitable example.	07
	(b)	Explain Wiener filter with mathematical expression.	07
		OR	
Q.3	(a)	Explain Homomorphic filter in detail	07
	(b)	Explain Inverse filtering in detail.	07
Q.4	(a)	Explain RGB model in detail.	07
	(b)	Compare Lossy compression and Lossless compression.	07
		OR	
Q.4	(a)	Explain Huffman code with suitable example.	07
	(b)	Explain HIS Colour model in detail.	07
Q.5	(a)	Explain Edge detection in detail.	07
	(b)	Explain and Perform Segmentation by region growing with suitable example.	07
		OR	
Q.5	(a)	Explain High Pass Filter in Spatial domain with suitable Example.	07
	(b)	Describe JPEG Compression Algorithm.	07
