Seat No.: Enrolment No GUJARAT TECHNOLOGICAL UNIVERS		Enrolment No.	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY		
		M.E –II st SEMESTER–EXAMINATION – JULY- 2012		
Subject code: 1720104 Da		ode: 1720104 Date: 10/07/2	ate: 10/07/2012	
•		lame: Digital Image Processing		
1		-	s: 7(
Instr	ucti	ons:		
		empt all questions.		
		ke suitable assumptions wherever necessary. Ires to the right indicate full marks.		
J.	rigi	ires to the right indicate run marks.		
Q.1	(a) (b)	Explain Intensity Slicing and Intensity to Color Transformations. Explain in detail: Components of a general-purpose image processing system.	07 07	
Q.2	(a)	Describe Image Pyramids.	07	
~ ·-	` '	Describe Color Slicing.	07	
		OR		
	(b)	Describe two-band subband coding and decoding system.	07	
Q.3	(a)	Draw and explain functional block diagram of a general image compression system.	07	
	(b)	Describe Thinning and Thickening.	07	
		OR		
Q.3	(a)		07	
	(b)	Describe Spatial and Intensity Resolution.	07	
Q.4	(a)	Describe Histogram Equalization	07	
	(b)	Explain Adaptive filters.	07	
		OR		
Q.4 Q.4	(a) (b)	Explain Image Interpolation. Describe Contrast Stretching	07 07	
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Q.5	(a)	What are the types of redundancies available in an image? Discuss with suitable examples.	07	
	(b)	Explain Bandreject, Bandpass and Notch filters.	07	
Q.5	(a)	OR Explain different color models used in image processing.	07	

(b) Explain pruning

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