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Max. Marks: 75

IV B.Tech I Semester Supplementary Examinations, March – 2017 DIGITAL IMAGE PROCESSING

(Common to Electronics & Communication Engineering and Electronics & Computer Engineering)

Time: 3 hours

Code No: **R41043**

Answer any FIVE Questions

All Questions carry equal marks

1	a)	What are isopreferance curves? Explain the significance of these curves.	[8]
	b)	Explain about Discrete cosine transform and write its properties.	[7]
2	a)	Discuss about contrast stretching and intensity slicing.	[8]
	b)	Explain spatial correlation with one example.	[7]
3	a)	Explain about two dimensional sampling and two dimensional sampling theorem.	[8]
	0)	domain filtering.	[7]
4	a)	Explain how an image can be restored using Mean filters.	[8]
	b)	What are the various ways to estimate the degradation function? Explain.	[7]
5	a)	What is chromaticity diagram? Explain how it is useful in color image processing.	[8]
	b)	Explain about color image smoothing.	[7]
6	a)	Explain about two band subband coding and decoding system.	[8]
	b)	What is meant by image compression? Why it is needed? Explain.	[7]
7	a)	Explain the following morphological operations:	10 1
	b)	Explain the concept of hole filling using morphological image processing.	[8] [7]
8	a)	Explain the various edge models in image segmentation.	[8]
	b)	Explain how the intensity histograms are useful in image segmentation.	[7]