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## Code No: R41043

## Set No. 1

## IV B.Tech I Semester Supplementary Examinations, February - 2019 DIGITAL IMAGE PROCESSING

(Common to Electronics and Communications Engineering and Electronics and Computer Engineering)

Time: 3 hours

Max. Marks: 75

## Answer any FIVE Questions All Questions carry equal marks \*\*\*\*\*

1	a) b)	Discuss the basic relationships between pixels. Discuss the properties, applications, advantages and disadvantages of	[8]
2	`	hotelling transform.	[7]
2	a)	Explain intensity transformation functions of (i) image negatives (ii) Gamma transformations Discuss the concept of using fuzzy sets for intensity transformation and	[8]
	b)	Discuss the concept of using fuzzy sets for intensity transformation and spatial filtering.	[7]
3	a) b)	Discuss the sampling theorem and aliasing. Discuss the band reject, Band pass, and notch filters.	[7] [8]
	0)	Discuss the band reject, Dand pass, and noten inters.	[0]
4	a)	Estimate the degradation function by experimentation and modeling.	[8]
	b)	Discuss the projections and the Radon transform for image reconstruction.	[7]
5	a)	Describe the HSI color model.	[7]
	b)	Explain the segmentation in HSI color space and RGB vector space.	[8]
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6	a) b)	Explain the wavelet series expansions. Discuss the Huffman coding with example.	[8] [7]
	0)		[,]
7	a)	Explain the concepts of extraction of connected components and skeletons.	[7]
	b)	Discuss the hit- or -miss transformation.	[8]
8	a)	Explain the edge linking and boundary detection.	[8]
~	b)	Discuss the multiple thresholds and variable Thresholding.	[7]

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