

Reg.	No:								
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)									
M.Tech I Year II Semester (R16) Regular Examinations May/June 2017 IMAGE AND VIDEO PROCESSING									
(DECS) (For Students admitted in 2016 only) Time: 3 hours  Max. Marks:60 (Answer all Five Units 5 X 12 =60 Marks)									
1	a. b.	What is meant by image sampling and quantization? What is kL transform? What are the advantage of KLtransform?Explain.  OR	6M 6M						
2	a. b.	Which is criteria highlight certain feature of interest? Explain about it What is the basic set of operations used in image processing? Explain.	4M 8M						
3	a. b.	What is high pass filter? Discuss about butter worth high pass filter. What is histogram matching? Discuss.	7M 5M						
4	a.	OR  Perform histogram equalization of the image.    4 4 4 4 4     3 4 5 4 3     3 5 5 5 3     3 4 5 4 3							
	b.	5*5 Explain edge detection using gradient operators.	8M 4M						
5	a.	Differentiate between linear and nonlinear image restoration techniques.	7M						
	b.	Discuss about Blind deconvolution.  OR	5M						
6	a.	What is meant by image segmentation? Explain various edge detection techniques for image segmentation.	8M						
7	b.	Explain region growing technique of image segmentation.  UNIT-IV  With reference to image segmentation explain the following:	4M						
,	a.	With reference to image compression explain the following:  (i) Lossless compression (ii) Transform coding  OR	12M						
8	a. b.	What is redundancy in images? Discuss about Arithmetic coding. Explain about the image file formats.	6M 6M						

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9	a.	Explain Region based motion estimation.	6M
	b.	Explain predictive coding.	6M
		OR	
10	a.	Discuss about video coding standards	6M
	b.	How sampling is done for video signals	6M

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