Roll No. :

ne humatanan 322740(22) mga Hambia Li

B. E. (Seventh Semester) Examination, Nov.-Dec. 2021

(New Scheme)

(CSE, IT Engg. Branch)

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DIGITAL IMAGE PROCESSING

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all the questions. Each question has four part (a), (b), (c) and (d). Part (a) is compulsory from each question. Attempt any two parts from (b), (c) and (d) each question.

Unit-I

1. (a) What is Image?

2

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(D)	what is image Processing? Explain and highlight the	
	salient function of various building block in digital	
	image processing.	7
(c)	Explore the use of sampling and quantization to form	
	digital images and also demonstrate the basic relation-	
	ship between pixel.	7
(d)	What is Histogram? Explain with their types and	
	technique for image enhancement.	7
	Unit-II	
(a)	What is Thresholding Method?	2
(b)	What is Fourier Transform? What is its role in image	
	processing?	7
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(c)	How the Edge and boundary of object is identified	
	in image?	7
(d)	What is Segmentation? Explain with their type and	
	features.	7
	Unit-III	

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3.	(a) What is Morphological Technique?	2
	(b) What are the various logical operation involved in image processing?	7
	(c) How the region is filled in image processing technique?	7
	(d) Write short notes on:	7
	(i) Dialation & Erosion	
	(ii) Opening & Closing	
	Unit-IV	
4		
4.	(a) What is Image Compression?	2
4.	(a) What is Image Compression?(b) Explain the salient feature of Huffman coding	2
40.		7
4.	(b) Explain the salient feature of Huffman coding	
4.	(b) Explain the salient feature of Huffman coding approach.	7
4.	(b) Explain the salient feature of Huffman coding approach.(c) Explain JPEG compression technique.	7

Unit-V

5.	(a) What is Texture?	2	
	(b) How the boundary descriptor helps to represent image?	-	
	(c) Explain the correlation based and feature based stereo correspondence method.		
	(d) Write short notes on :(i) Shape number(ii) Projective geometry	2×3·5	
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