

Reg.		No:													
		SIDDH	ARTI	H INS	TITU	TE O	F EN	GINE	ERIN	G & 7	ГЕСН	INOL	OGY:: PUTTUR		
							(AU'	TON	OMOU	(S)					
		B.Tec	h IV ነ	ear l	Sem	ester	Supp		entary		minat	tions	February-2022		
					D (Electr	IGIT.	AL IN	/IAGE	S PRO	on En	SING	ring)			
Т	ime	3 hours			(Electi	omes	anu C	Juni	incati		ginee	mg)	Max Marks	s [.] 60	
	mie.	Shouis			(An	awor a	11 Eiz	JInit	a 5 w 1	2 - 6	Mor	20)		5.00	
					(All	SWCI d		UNI	з <u>э</u> х 1 Г-I	2 – 0	J 1v1a1	KS)			
1	a	Explain the components of digital image processing along with the suitable block											6M		
		diagram.													
	b	Define distance measures in digital image processing? Explain different types o distance measures.													
								O	R						
2	a	Discuss the following terms with example: Adjacency, 4-adjacency, 8-adjacency?											6M		
	b	Explain	about	image	samp	ling ar	nd qua	ntizat UNI	ion pro Γ -ΙΙ	ocess v	with p	roper	steps.	6M	
3	a	Determin	ne the	image	basis	functi	on of	Hadaı	nard T	ransfo	orm w	hen N	= 4.	6M	
	b	Outline t	that Kl	L trans	sform	is an (Optima	al Tra	nsform	ı.				6M	
								O	R						
4	a	Outline t	the ste	ps to t	e follo	owed t	to calc	ulate	KL tra	nsfori	n.			6M	
	b	Determin	ne the	image	basis	functi	on of	Walsh	n Trans	sform	when	N = 4	•	6M	
								UNII	-III						
5	a	Explain	the me	chani	cs of s	patial	filteri	ng wit	h suita	able di	agran	1.		6M	
	b Illustrate the smoothing filters in frequency domain along with										the re	equired expressions.	6M		
		UK													
0	a L	Define the empressions for LDE as LUDE and the left of the left of the left.										6M			
	D	UNIT-IV												0171	
7	a	a Explain the inverse filtering for image restoration with relevant equations.											tions.	6M	
	b	Discuss the merits and demerits of inverse filtering.												6M	
		_ ~ ~ _		~				O	R						
8	a	Define In	mage S	Segme	ntatio	n and	list ou	t the a	pplica	tions	of ima	ige seg	gmentation.	6M	
	b Elaborate the several edge models for edge detection in image segme											entation.	6M		
								UNI	ľ-V						
9	a	Define H	luffma	ın cod	ing?		<u></u>	••						6M	
	b	Illustrate	e the p	rocedu	re of t	the Hu	ittman	codi	ng alor	ng wit	h suita	ible ex	kample.	6M	
10	6	Domonor	trata 41	0.000	oodum-	ofth	bit 1	UI ana a	s adina	alona	with	uitabl	a avampla	<u>en</u>	
10	a h	Compary	u ate tr	e proc	- lengt	h cod	ing on	d arith	metic	codin	with S	unabl	e example.	UIVI GM	
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