

[M19CST1105]

I M. Tech I Semester (R19) Regular Examinations
DIGITAL IMAGE PROCESSING
Computer Science and Engineering
MODEL QUESTION PAPER

TIME: 3 Hrs.

Max. Marks: 75 M

Answer **ONE Question** from **EACH UNIT**

All questions carry equal marks

			CO	KL	M
		UNIT - I	CO1	K1	8
1.	a).	Describe basic geometric transformations	CO2	K2	7
	b).	Explain Walsh transform			
		OR			
2.	a).	Explain fundamental steps in Image processing	CO1	K2	8
	b).	State Frier Transform	CO2	K1	7
		UNIT - II			
3.	a).	Distinguish between spatial filtering and domain filtering	CO2	K2	8
	b).	Explain abt smoothing filters	CO2	K2	8
		OR			
4.	a).	Classify varis image enhancement filters.	CO2	K4	8
	b).	Describe Noise models	CO2	K1	7
		UNIT - III			
5.	a).	Explain varis edge enhancement filters	CO2	K2	8
	b).	Classify morphology operation.	CO1	K4	7
		OR			
6.	a).	Explain Characteristics of Segmentation, and Detectionof Discontinuities	CO1	K2	8
	b).	Explain abt region based segmentation method	CO1	K2	7
		UNIT - IV			
7.	a).	Distinguish between Supervised and unsupervised learning	CO2	K2	8
	b).	Explain pattern recognition	CO1	K2	7
		OR			
8.	a).	Explain abt random forest	CO2	K2	8
	b).	Distinguish between parametric and Non-parametric methods	CO2	K2	7
		UNIT - V			
9.	a).	Distinguish between feature selection versus feature extraction	CO1	K2	8
	b).	State probability theory	CO2	K2	7
		OR			
10.	a).	Classify Low-rank methods	CO2	K4	8
	b).	Describe dimensionality reduction	CO2	K1	7