Q. P. Code: 27385

Duratio	on 3 Hours	Maximum marks	80
 Qu So As Fig 	testion 1 is compulsory lve any three from the remaining five questions sume suitable data if necessary. gures to the right indicate full marks		
Q.1. a. b. c. d. e.	Answer any four questions from the following: Differentiate between DCT based and Wavelet based compression stan Define pattern and pattern classes. Discuss different generations of CT machines. Give the characteristics of Multi Spectral Scanning System (MSS). State Fourier Slice Theorem.	dards.	[20]
Q.2.a b.	With the help of a neat block diagram, explain JPEG 2000 compression Discuss different spectral factors involved in remote sensing.	ı scheme.	[10] [10]
Q.3.a b.	What is minimum distance classifier? Name and explain any two noise probability density functions.		[10] [10]
Q.4.a b.	Differentiate in detail between inverse filter and Wiener filter. Explain the importance of Image Registration in Image Fusion.		[10] [10]
Q.5.a. b.	How can data be hidden in a digital image? Explain any one method in What is image reconstruction? Explain the method of image reconstruct parallel beam filter back projections.	detail. tion using	[10] [10]
Q.6	 Write short notes on any four: a. Spectral Signatures b. Radon transform c. Video compression standards d. Push broom scanner e. Wavelet transform 		[20]