Exam. Code : 206702 Subject Code : 5235

M.Sc. Computer Science 2nd Semester IMAGE PROCESSING

Paper-MCS-202

Time Allowed—3 Hours]

[Maximum Marks—100

Note: — Attempt any FIVE questions. Each question carries equal marks.

- Explain the term Image Digitization. Discuss different technologies involved in Image Digitization. Also write the properties of a digital image.
- 2. Define the following terms:
 - (a) Image Enhancement
 - (b) Image Data Compression
 - (c) Image Restoration
 - (d) Statistical Pattern Recognition.

4×5

- Discuss Digital Image Restoration System. Write different Digital Image Restoration models. Explain the concept of image formation system, a detector and a recorder. 20
- What do you understand by a Computer Vision System?
 Explain Computer Vision application areas. Explain at least one in detail.

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(Contd.)

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5.	Discuss the term Data Redundancy in Processing? Explain its three types in detail with to of an example.	
6.	Write short notes on the following:	
	(a) Statistical Pattern Recognition	10
621	(b) Color System Transformations.	10
7.	Discuss the role of Image processing in the field of medical	
	image analysis.	20
8.	Discuss:	
	(a) Convolution	10

(b) Correlation in Fourier Transform.

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