Exam. Code : 208602
Subject Code : 8393

M.Sc. (Information Technology) Semester–II

IMAGE PROCESSING

Paper–MIT-203

Time Allowed—3 Hour] [Maximum Marks—100

Note :— Attempt any FIVE questions out of **EIGHT**. All questions carry 20 marks each.

1. What are the various areas of Image Processing ? Explain the design methodology for in age processing.

2. Compare and analyze various algorithms for edge detection. What is the affect of different kind of noise on these algorithms ?

3. What is the significance of neighboring pixels ? What is the objective of Sampling and Quantization ? How do these steps affect the quality of an image ?

4. Write short notes on :

   (a) Relation Description for Boundary

   (b) Global Thresholding.

5. What are the various types of adaptive filters ? What is the difference between low pass filtering and high pass filtering techniques ?

6. What do you mean by Image Transformation ? Explain Walsh and Hadamard transformation in detail.

7. Discuss in detail the different scene matching and detection methods.

8. What are different Image Observation Models ? How the different filter methods effect these models ?