Exam. Code : 208602 Subject Code : 4669

## M.Sc. Information Technology Semester-II MIT-203 : IMAGE PROCESSING

Time Allowed—3 Hours] [Maximum Marks—100

Note :- Attempt any five questions. Each question carries equal marks.

- Explain the term Image Digitization. Discuss different 1. technologies involved in Image Digitization. Also write the properties of a digital image. 20
- What do you understand by Image Transformation ? 2 Discuss Discrete Fourier Transformation in detail with suitable example. 20
- What do you understand by Image Sharpening ? Discuss 3. how High Pass Filtering and Differentiation technique help in sharping the image. 20
- Define the following : 4.
  - (a) Image restoration
  - (b) Image Encoding. 2×10
- 5. Explain the process of detection of discontinuation by point detection, line detection and edge detection with the help of an example. 20

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(Contd.)

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- 6. Define the following :
  - (a) Image Observation
  - (b) Spatial Feature Extraction
  - (c) Boundary Extraction
  - (d) Image Understanding. 4×5
- 7. (a) What is Gray Level Interpolation ? Explain the schemes involved in it. 10
  - (b) Explain the concept of Global Thresh holding by citing an example.
    10

4×5

- 8. Write short notes on :
  - (a) Weiner Filtering
  - (b) Least Square Error Filtering
  - (c) Texture
  - (d) Moment Representation.