

Exam. Code : 206702

Subject Code : 4620

M.Sc. Computer Science Semester—II**MCS-202 : IMAGE PROCESSING**

Time Allowed—3 Hours]

[Maximum Marks—100

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

1. Define the term Image Processing. Explain different steps used in Image Processing. Also discuss different available image data formats. 20
2. What do you understand by Visual Phenomena ? Discuss. 20
3. What do you understand by Image Data Compression ? Explain different techniques used for Image Data Compression. Discuss Pixel Coding technique in detail. 20
4. What do you mean by Image Enhancement ? Discuss different techniques used for Image Enhancement. Explain at least one in detail. 20
5. (a) What are various components of General Purpose Image Processing System ? Explain the role of each component. 10
(b) Discuss the process of Image Digitization. 10

6. Discuss Digital Image Restoration System. Enlist Digital Image Restoration models. Explain the concept of Linear Filtering model. 20
7. Write short notes on the following :
 - (a) Color Models 10
 - (b) Color System Transformation. 10
8. Discuss the applications of Image Processing in the field of Medical Image Processing. 20

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