

Code: R7411211

R7

IV B.Tech I Semester (R07) Supplementary Examinations, May 2012
IMAGE PROCESSING
(Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. (a) Discuss the image sampling and quantization.
(b) Explain relations between the pixels:
(i) Connectivity. (ii) Neighbors.
2. (a) Discuss image enhancement using histogram techniques.
(b) Discuss following spatial filtering techniques.
(i) Median filtering. (ii) High boost filtering.
3. (a) Discuss the algebraic approach of unconstrained restoration.
(b) Discuss the formulation of ID degradation model.
4. Discuss in detail the concept of pseudo-color image processing.
5. (a) Discuss different types of image redundancies.
(b) Discuss the lossy predictive coding with the help of block diagram.
6. Discuss the concepts of dilation and erosion with the help of examples.
7. (a) What is the need for segmentation?
(b) Discuss the region oriented segmentation.
8. Discuss the patterns and pattern classes in case of object recognition.
