Code No: R05420502 m R05

Set No. 3

IV B.Tech II Semester Regular/Supplementary Examinations, May 2010 IMAGE PROCESSING

Computer Science And Engineering

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) Explain about the logic operations involved in binary images?
 - (b) What is mutually exclusive and disjoint set?

[8+8]

- 2. Explain in detail with block diagram the fundamental steps in digital Image processing and their importance. [16]
- 3. (a) Explain about Hamming channel encoder?
 - (b) Explain 1-d, 2-d compression standards?

[8+8]

- 4. Explain in detail the working of following smoothing spatial filters & compare
 - a) Averaging filter b) Median filter.

[116]

- 5. (a) Define and Explain about isolated point?
 - (b) Explain about line detection?

[8+8]

- 6. Explain the following filters used in Image restoration.
 - a) Inverse filter

b) Wiener filter.

[16]

- 7. (a) Define and Explain about Hyperplane?
 - (b) Explain about matching by correlation?

[8+8]

- 8. (a) Derive the CMY transformations to generate the complement of a color image.
 - (b) Explain in detail about color image smoothing & sharpening.

[16]
