



MSIT 4E 34 (OS)

IV Semester M.Sc. (I.T.) Examination, June/July 2010
IMAGE PROCESSING
(Old Syllabus)

Time : 3 Hours

Max. Marks : 75

PART – A

Answer the following :

(12×2+1×1=25)

1. List any 4 applications of Image Processing.
2. What is digital image ?
3. Explain any one digital image properties.
4. What is Laplacian ?
5. What is lossy compression ?
6. What is merging ?
7. What is spatial domain approach ?
8. What is image enhancement ?
9. What is the effect of noise on images ?
10. Give the equation of Fourier transforms pair.
11. Define Transform Coding.
12. What is region based segmentation ?
13. What is Projections ?

P.T.O.

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PART – B

Answer **any five** :

(5×10=50)

1. Explain the Digital Image properties with an example.
2. Explain Image smoothing with suitable illustrations.
3. What are the traditional image data structures ? Explain.
4. Explain the role of Illumination on thresholding with an example.
5. Explain variable length coding and bitplane coding.
6. Explain simple descriptors and chain coding technique.
7. Describe the different topological data structures.
8. Show that the Fourier Transform of the convolutes of two functions is the product of their Fourier Transform.

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