W-3240

M.Sc. (Fourth Semester) Examination, June-2020
COMPUTER SCIENCE
Paper - 403(III)
Image Processing

Time : Three Hours

Maximum Marks : 85

Minimum Pass Marks : 29

Note : Attempt **all** questions.

Unit - I

Q.1. Explain the fast Fourier transform (FFT). How it is differ from inverse FFT? Write down the algorithm for it.   17

Unit - II

Q.2. Describe image sharpening. Explain image sharpening with differentiation.   17

Unit - III

Q.3. Write the down the algebraic approach to restoration. What are the main differences between unconstrained and constrained restoration?   17

Unit - IV

Q.4. Define image entropy? What are Huffman codes and b-codes? Why do we use these codes?
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Unit - V

Q.5. Write an explanatory note on global analysis via Huge transform and graph theoretic techniques.
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