Roll No.: .....

Total No. of Questions : 5] [Total No. of Printed Pages : 1

W-3240(A)

M.Sc. (Fourth Semester) Examination, (Second Chance) 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. What do you understand by Fourier transform? Write some properties of two dimensional Fourier transform.

Unit - II

Q.2. Why do we perform image enhancement? Differentiate between spatial domain methods and frequency domain methods.

Unit - III

Q.3. Explain the followings:

a) Least mean square filter

b) Spatial transformations

c) Gray level interpolation

Unit - IV

Q.4. Differentiate between objective and subjective fidelity criteria of image encoding.

Unit - V

Q.5. Define image segmentation? What do you understand by detection of discontinuities? Explain the point, line and image detection process.