(ii) What is an image histogram? How di histogram help in image enhancement?

10 Mades (CO2)

av

TMIC-304

(b) What do you understand by histogram

equalization? 10 Marks (CO2)

H Roll No.

TMC-304 second nonaximum bas gailgas aid (d)

M. C. A. (THIRD SEMESTER) MID SEMESTER EXAMINATION, 2022

ELECTIVE IMAGE PROCESSING AND COMPUTER VISION

Time: 11/2 Hours

Maximum Marks: 50

- **Note:** (i) Answer all the questions by choosing any *one* of the sub-questions.
 - (ii) Each question carries 10 marks.
- 1. (a) What do you mean by a digital image?

 Why do you want to digitize an image?

10 Marks (CO1)

OR

(b) Briefly explain the fundamental steps in digital image processing with a neat diagram. 10 Marks (CO1)

2. (a) Explain the technique of convolution for reconstructing the signal. 10 Marks (CO1)

OR

(b) Explain sampling and quantization process in detail. 10 Marks (CO1)

3. (a) What do you mean by Spatial filtering?

Differentiate between spatial domain and frequency domain enhancement.

10 Marks (CO2)

Maximum Marke : 50

NO

Note: (i) Answer all the questions by choosing

(b) Explain Logarithmic and Power law image enhancement techniques in detail.

10 Marks (CO2)

4. (a) Explain contrast stretching in detail.

(100) shuld (CO1)

10 Marks (CO2)

OR

(b) What do you mean by bit slicing? Explain with a suitable example. 10 Marks (CO2)

5. (a) What is an image histogram? How does histogram help in image enhancement?

10 Marks (CO2)

OR

(b) What do you understand by histogram equalization? 10 Marks (CO2)