(6 pages) **Reg. No. :** .....

Code No. : 10335 E **Sub. Code : AMCS 64**

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2023.

Sixth Semester

Computer Science – Core

INTRODUCTION TO DIGITAL IMAGE PROCESSING

(For those who joined in July 2020 only)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Among the following image processing a technique which is fast, precise and flexible.

   (a) Optical (b) Digital

   (c) Electronic (d) Photographic

2. Which means the assigning meaning to a recognized object?

   (a) Interpretation (b) Periodic

   (c) Acquisition (d) Segmentation

3. 2D Fourier transform and its inverse are infinitely _____.

   (a) aperiodic (b) periodic

   (c) Linear (d) Non linear

4. If $f(x, y)$ is an image function of two variables, then the first order derivative of a one dimensional function, $f(x)$ is _____.

   (a) $f(x+1) - f(x)$

   (b) $f(x) - f(x+1)$

   (c) $f(x-1) - f(x+1)$

   (d) $f(x) + f(x-1)$

5. Which is a colour attribute that describes a pure colour?

   (a) Saturation (b) Hue

   (c) Brightness (d) Intensity

6. Human perception of colour closely resembles the _____ colour model.

   (a) CMY (b) RGB

   (c) HSI (d) CMYK