

UG/6th Sem(H)/23/(CBCS)

2023

**BCA (Honours)**

**Paper Code : BCAH DSE 3-E1, E2, E3**

**Full Marks : 32**

**Time : Two Hours**

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

**Paper Code : DSE 3-E1**

**(Digital Image Processing)**

**Group - A**

1. Answer any six questions : 2×6=12

- (a) What do you mean by Image Sampling?
- (b) What is pixel?
- (c) What is meant by Image Shrinking?
- (d) List edge detection operators.
- (e) What is True Color Image?
- (f) What is image translation and scaling?
- (g) What do you mean by grey level?

P.T.O.

( 2 )

**Group - B**

Answer any *two* questions.

10×2=20

2. (a) Explain Image Enhancement techniques in Spatial Domain.  
(b) Explain a Boundary detection technique briefly.  
6+4
  3. (a) What is Noise Cleaning?  
(b) Short note on Huffman Coding.  
(c) Define Histogram. 4+4+2
  4. (a) Explain about the Global Thresholding.  
(b) Discuss Region Splitting and merging technique with example. 5+5
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