Roll No.

Total Pages: 2

## BT-7/D-22

47305

# DIGITAL IMAGE PROCESSING

## Paper-ECP 17A

Time Allowed: 3 Hours]

[Maximum Marks: 75]

Note: Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

#### Unit-I

- 1. (a) Briefly Explain Image Processing applications.
  - (b) Write short note on fundamental steps in Digital Image Processing.
- 2. Write short notes on the following:

15

- (a) Image sampling and Quantization.
- (b) Relationship between pixels.
- (c) Color fundamentals.

## Unit-II

3. Write short notes on the following:

15

- (a) Intensity transformation in image processing.
- (b) Histogram Processing.
- (c) Spatial domain filtering.

4.	Explain smoothing and sharpening frequency domain filt used in image processing.	ers 15
•	Unit-III	٠
<b>5.</b>	What do you understand by Image compression. Expl any two-error free image compression coding technique	ain ies. 15
6.	Write short notes on the following:	15
	(a) Erosion and Dilation.	×
	(b) Image Segmentation.	
a 2	Unit—IV	
7.	Write short note on Video Frame Classifications.	15
8.	Write short note on Patterns and Pattern Classes.	15

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