DECEMBER 2015   **P/ID 17533/PCE15**

Time : Three hours   Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1.   Write about digital image representation.

2.   Write about neighbors of a pixel.

3.   Explain pseudo-color image processing.

4.   What is image averaging? Explain.

5.   Give an overview on spatial filtering.

6.   Write about homomorphic filtering.

7.   Write short notes on region splitting and merging.

8.   Discuss on variable - length coding.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9.   Write the fundamental steps in image processing.

10.   Discuss on sampling and quantization.

11.   Explain spatial domain methods.

12. Describe Fourier transform.

13. Discuss on smoothing and sharpening filters.

14. Explain degradation model.

15. Illustrate inverse filtering.

16. Explain region growing by pixel aggregation.

17. Discuss on image compression models.

18. Illustrate Lossy compression.

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