M.Sc DEGREE EXAMINATION,APRIL 2019
I Year II Semester
Digital Image Processing

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. List some applications of Digital Image Processing.
2. Define Sampling & Quantization.
3. What is a Filter? Why it is used?
4. What is Image averaging?
5. What is noise? What are the different types of noises?
6. Differentiate Enhancement and Restoration.
7. Define Compression Ratio.
8. What are the types of redundancy?
9. What are the methods based on which segmentation can be done?
10. What is region growing?
11. What is the advantage of JPEG 2000 standard?
12. What is adjacency? What are its types?

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Discuss about Color models.
14. Write about Sharpening using Frequency Domain Filters.
15. Write Short notes of Image Restoration Techniques.
16. Discuss Categories of Image Degradation in brief.
17. Explain about Thresholding.
18. List the differences between Lossless and Lossy Compression.
19. Write Short notes on Haar Transform.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Explain the steps involved in Digital Image Processing.
21. Discuss in detail about Smoothing Spatial Filters.
22. Explain the model of Image Degradation and Restoration.
23. Explain Huffman Coding & Bit Plane Coding.
24. Discuss about Region Based Segmentation in detail.

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