M.Sc. DEGREE EXAMINATION,APRIL 2020
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. Define digital image processing.
2. What is color image processing?
3. Define Fourier Transform and its inverse.
4. Define Haar transform.
5. How to improve the appearance of an image?
6. What is Image Enhancement?
7. What is meant by image compression standard?
8. Define data redundancies.
9. How Segmentation is accomplished?
10. Define image segmentation.
11. What is distance metrics?
12. What is Lossy compression?

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

Answer any **FIVE** questions

13. What are the fundamental steps in digital image processing?
14. Discuss about the mechanics of filtering in spatial domain.
15. Explain about Wiener filter used for image restoration.
16. List out and explain the identification of basic data redundancies in digital image Compression.
17. What is thresholding? Explain about global thresholding.
18. Write short notes on Loss less compression.
19. Discuss about Classification of Image processing operations.

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

Answer any **THREE** questions

20. What is meant by digital image processing? Explain how Digital images can be represented?
21. What is meant by image enhancement by point processing? Discuss any two methods in it.
22. Explain a Model of the Image Degradation and Restoration Process.
23. Explain about image compression models.
24. Write about edge detection with suitable diagrams.

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