M.Sc. DEGREE EXAMINATION,NOVEMBER 2018
II Year III Semester
Core Major -IX
DIGITAL IMAGE PROCESSING

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

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

Answer any **TEN** questions

1. What is digital image processing?
2. What are the two elements that are required to acquire digital Image?
3. What are spatial enhancement methods?
4. What is frequency domain?
5. What is meant by fourier transformation?
6. What is smoothing?
7. What is noise?
8. What is invariant degradation?
9. What is image compression?
10. What is error free compression?
11. Is there any basic relationship between pixels and neighbors?
12. Define sampling?

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

Answer any **FIVE** questions

13. What are the components of image processing system?
14. How histogram equalization is useful in histogram processing?
15. Explain any one technique in edge detection?
16. How to rectify the noise in image restoration?
17. Differentiate between Loss less compression and Lossy compression?
18. What is color image processing? Explain any Two models.
19. What is the difference between edge and boundary?

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

Answer any **THREE** questions

20. What are the fundamental steps in digital image processing?
21. Explain about smoothing of spatial filters, smoothing of linear and order-statistics filters?
22. Explain image thresholding concept in segmentation?
23. Explain the categories of image degradations?
24. Explain any two Image compression models?

17PCSCT3A09

M.Sc. DEGREE EXAMINATION,NOVEMBER 2018
II Year III Semester
Core Major -IX
DIGITAL IMAGE PROCESSING

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

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

Answer any **TEN** questions

1. What is digital image processing?
2. What are the two elements that are required to acquire digital Image?
3. What are spatial enhancement methods?
4. What is frequency domain?
5. What is meant by fourier transformation?
6. What is smoothing?
7. What is noise?
8. What is invariant degradation?
9. What is image compression?
10. What is error free compression?
11. Is there any basic relationship between pixels and neighbors?
12. Define sampling?

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

Answer any **FIVE** questions

13. What are the components of image processing system?
14. How histogram equalization is useful in histogram processing?
15. Explain any one technique in edge detection?
16. How to rectify the noise in image restoration?
17. Differentiate between Loss less compression and Lossy compression?
18. What is color image processing? Explain any Two models.
19. What is the difference between edge and boundary?

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

Answer any **THREE** questions

20. What are the fundamental steps in digital image processing?
21. Explain about smoothing of spatial filters, smoothing of linear and order-statistics filters?
22. Explain image thresholding concept in segmentation?
23. Explain the categories of image degradations?
24. Explain any two Image compression models?