



QP CODE: 26019390



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M.Sc APPLIED ELECTRONICS

Core Courses - EL020401 - IMAGE PROCESSING

2019 Admission Onwards

54266342

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is luminance?
2. What is image fidelity criteria?
3. Write about CMY colour model.
4. Is convolution is related with file formats in image processing? How?
5. What is histogram?
6. In which domain Sharpening operation is done for image enhancement and why?
7. What is meant by clustering?
8. What are the different types image thresholding?
9. Features of dictionary based compression.
10. Short note on JPEG.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. What are the classification of digital images? Explain briefly.
12. Write briefly about Walsh transform.





13. What are the different types of point operators?
14. How neighborhood is selected and its importance in image enhancement.
15. Classification of Image segmentation techniques.
16. What are the classification of edges?
17. What are advantages and disadvantages of image compression?
18. What is meant by redundancy? Explain.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain the fundamental steps in digital Image Processing.
20. Explain about Homomorphic filter and the steps followed in Homomorphic filtering.
21. Describe about Hough transform in segmentation.
22. What is importance of coding in image processing? Compare between Huffman and Arithmetic coding schemes.

(2×5=10 weightage)

