APRIL 2026 **52515/325E5F**

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. List any two applications of computer graphics.

2. Write a note on scan conversion

3. Recall the image acquisition using a single sensor.

4. How to generating digital image?

5. Comment on image shrinking.

6. Show the estimation of noise parameters.

7. What are the functions of arithmetic mean filters?

8. Give the use of mean filters.

9. What is transform coding?

10. What do you mean by HSI color model?

11. Define: “Region Filling”.

12. What is the role of illumination?

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Summarize the raster scan display processor and it’s working.

14. Discover the components of an image processing system.

15. Generalize the basic concept in sampling and quantization.

16. Dissect the spatial and frequency properties of noise.

17. Distinguish between the low pass and high pass filtering.

18. Memorize the implementation of variable length coding.

19. Identify the convex hull of morphological algorithms.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Enumerate the basic structure and working of a video controller.

21. Discuss the need of aliasing and moiré patterns.

22. Compare and construct the bandreject filters and bandpass filters.

23. Estimate the procedure for RGB color model.

24. Predict the Image segmentation by morphological watersheds.

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