

21U416

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Name:

Reg.No:

FOURTH SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2023

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U BCA4 C08 - COMPUTER GRAPHICS

(Computer Application - Complementary Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. List the applications of Computer graphics.
2. Define DVST.
3. Define bitmap, scan line in raster scan.
4. Define refresh display file.
5. Explain any two differences between LCD and LED.
6. List steps when $\Delta y=1$ in DDA algorithm.
7. List steps when $d>0$ in Bresenham's circle algorithm.
8. Write the Row-major equation for Homogenous co-ordinates of Scaling.
9. Write the Row-major equation on X-shear.
10. Define Complementary colors.
11. Define CMY color model.
12. Explain any two advantages of Gimp.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Explain plasma panel display.
14. Explain types of video display devices.
15. Explain techniques for producing color displays with a CRT.
16. Explain window to viewport transformation.
17. Illustrate the Line Clipping algorithm.

18. Explain Sutherland - Hodgeman Polygon Clipping algorithm.

19. Explain working of paint tools in GIMP.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Explain Scan Line Polygon Filling algorithm with example.

21. Explain Two Dimensional transformations in detail.

(1 × 10 = 10 Marks)
