

23U416

(Pages: 2)

Name :

Reg. No :

FOURTH SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2025

(CBCSS-UG)

(Regular/Supplementary/Improvement)

CC19U BCA4 C08 - COMPUTER GRAPHICS

(Computer Application - Complementary Course)

(2019 Admission onwards)

Time: 2 Hours

Maximum: 60 Marks

Credit: 3

Part A (Short answer questions)

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

1. Define pix map in raster scan.
2. Define refresh rate.
3. List types of flat panel display.
4. Define Control grid.
5. Compare LCD and LED.
6. List steps when $\Delta x=1$ in DDA algorithm.
7. List 2 approaches of polygon filling.
8. Write the Row-major equation for Rotation.
9. Write the Row-major equation for Homogenous co-ordinates of Rotation.
10. Define Brightness.
11. Define RGB color model.
12. Define GIMP.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Explain CAD, Computer art, Presentation Graphics.
14. Explain pixel.
15. Explain Shadow mask method.
16. Explain with each steps window to viewport transformation.
17. Briefly explain Line Clipping algorithm.

18. Describe Polygon Clipping algorithm.
19. Explain working of transform tool in GIMP.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Using Bresenham's algorithm, draw a circle with centre (20, 20) and radius 8. Explain in detail with necessary steps?
21. Write row major, column major Homogenous co-ordinates.

(1 × 10 = 10 Marks)
