

22U416

(Pages: 2)

Name:

Reg.No:

FOURTH SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2024

(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. Define Basic Graphics System.
2. List any two advantages of random scan display.
3. List any two advantages and disadvantages of flat panel display .
4. List the components of Refresh CRT.
5. Explain any two differences between LCD and LED.
6. Point out steps when $\Delta x=1$ in DDA algorithm.
7. List two approaches of polygon filling.
8. Define Rotation.
9. Write the Column-major equation for Homogenous co-ordinates of Translation.
10. Define Light.
11. Define YIQ model.
12. Explain any two features of Gimp.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Explain pixel.
14. Explain raster scan display.
15. Explain Beam-Penetration method.
16. Briefly explain window to viewport transformation.

17. Explain Line Clipping algorithm.
18. Describe Polygon Clipping algorithm.
19. Explain selection tools in GIMP.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Explain in detail with example Bresenham's algorithm.
21. Explain Homogenous co-ordinates in detail.

(1 × 10 = 10 Marks)
