

D 120529

(Pages : 2)

Name.....

Reg. No.....

FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION**APRIL 2025**

B.C.A.

BCA 4C 08—COMPUTER GRAPHICS

(2019—2023 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)*Answer all questions.**Each correct answer carries a maximum of 2 marks.**Ceiling 20 marks.*

1. What is Translation ?
2. Which are the primary colors ?
3. Define a pixel and explain its role in digital displays.
4. What do you mean by scan conversion of lines ?
5. What do you mean by resolution ?
6. List the types of transformation.
7. What do you mean by line clipping ?
8. What is a Window ?
9. Define a color model in computer graphics.
10. Explain the YIQ color model and its applications.
11. What is line clipping ?
12. What is Shear ?

Turn over

Section B (Short Paragraph Type Questions)

Answer all questions.

Each correct answer carries a maximum of 5 marks.

Ceiling 30 marks.

13. Differentiate LCD and LED.
14. Describe the Digital Differential Analyzer (DDA) algorithm for line drawing.
15. Explain in detail about rotation with equation.
16. Explain about 2D viewing pipeline.
17. What is color models and how is it applied in computer graphics ?
18. Explain about raster scan display.
19. Explain about Scanline polygon filling.

Section C (Essay Type Questions)

Answer any one question, correct answer carries 10 marks.

20. Explain about Line Clipping and Cohen Sutherland Line Clipping.
21. Explain the operation of CRT and color CRT.

(1 × 10 = 10 marks)