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)