D 130207 (Pages : 2) Name......................................

Reg. No................................

FIFTH SEMESTER (CBCSS—U.G.) DEGREE EXAMINATION NOVEMBER 2025

Information Technology

BIT 5B 11—COMPUTER GRAPHICS

(2019 Syllabus)

Time : Two Hours Maximum : 60 Marks

Section A (Short Answer Type Questions)

Each correct answer carries a maximum of 2 *marks, Ceiling* 20 *marks.*

1. What do you mean by retracing ? Define horizontal as well as vertical retracing.

2. What are flat bed scanner ?

3. What are electroluminescent diplays ?

4. Write a brief notes on Light Pen.

5. What are the conditions for checking the sign of circle function in Midpoint circle Algorithm ?

6. Illustrate the need of homogeneous co-ordinates ?

7. Define viewing transformation.

8. Explain polygon clipping

9. What is a rubber-band method ?

10. Explain hidden surface elimination.

11. What are stereoscopic views ?

12. What are quad trees ?

Turn over

Section B (Ceiling 30 marks)

Each question carries 5 *marks.*

13. Briefly describe about various hard copy devices.

14. What is Bresenham's Line Drawing Algorithm ? Illustrate with appropriate figure.

15. Compare rotation and scaling.

16. Distinguish grid and gravity field.

17. Which are the different graphics primitives ?

18. Differentiate window and viewport.

19. Explain oblique type of parallel projection.

Section C (10 marks)

Answer any **one** *question.*

20. Explain Bresenham's Circle Drawing Algorithm with example.

21. Explain different interactive picture construction techniques.