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Name.....

Reg. No.....

**SIXTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
MARCH 2025**

Computer Science

BCS 6B 16 (d)—COMPUTER GRAPHICS

(Admissions Year—2019 Onwards)

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. Differentiate between pixmap and bitmap ?
2. What is vertical retrace ?
3. What do you mean by rotation ?
4. What is reflection ?
5. What is uniform scaling ?
6. Differentiate between window and viewport.
7. Write the conditions to be satisfied for point clipping.
8. What is YIQ color model ?
9. Write the transformation matrix of scaling.
10. What is rigid body transformations ?
11. What are the two different approaches to area filling on raster systems ?
12. What is translation ?

**Turn over**

**Section B (Short Essay Type Questions)**

*Answer **all** questions, each correct answer carries a maximum of 5 marks.*

*Ceiling 30 marks.*

13. Explain Random Scan Displays.
14. Describe general pivot point rotation.
15. Describe about different color models.
16. Explain the different components of CRT.
17. Explain any *three* input devices.
18. Explain Scan-Line Polygon Fill Algorithm.
19. What are the different applications of Computer Graphics ?

**Section C (Essay Type questions)**

*Answer any **one** question, correct answer carries 10 marks.*

20. Explain Raster Scan Displays.
21. Explain Sutherland-Gary Hodgman polygon clipping algorithm.