

C 40532

(Pages : 2)

Name.....

Reg. No.....

**SIXTH SEMESTER U.G. (CBCSS—UG) DEGREE EXAMINATION
MARCH 2023**

Computer Science

BCS 6B 16 (d)—COMPUTER GRAPHICS

(2019 Admission 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. List any four applications of Computer Graphics.
2. Define scan conversion ?
3. Differentiate between horizontal retrace and vertical retrace ?
4. What is scaling ?
5. What is shear ?
6. What is differential scaling ?
7. Write the transformation matrix of rotation.
8. Define Viewport.
9. List out the different types of clipping operations.
10. What do you mean by region code ?
11. What are the properties of light ?
12. What is CMY color model ?

Turn over

Section B (Short Essay Type Questions)

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

Ceiling 30 marks.

13. Write a short note on Color CRT Monitors.
14. Explain the working of LED monitors.
15. Explain general fixed-point scaling.
16. Write a short on Composite Transformations.
17. What do you mean by Homogenous Coordinates ? Explain.
18. Explain the function of video controller on a Raster Scan Systems.
19. What is clipping ? Explain different types.

Section C (Essay Type Questions)

Answer any one question, correct answer carries 10 marks.

20. Explain the two-dimensional geometric transformations.
21. Explain the Bresenham's circle generating algorithm with an example.