



21101923

QP CODE: 21101923

Reg No :

Name :

B.Sc / BCA DEGREE (CBCS) EXAMINATION, AUGUST 2021

Third Semester

Core Course - CS3CRT07 - COMPUTER GRAPHICS

Common to Bachelor of Computer Application & B.Sc Information Technology Model III

2017 Admission Onwards

86487141

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is aspect ratio in display?
2. What do you mean by scan conversion?
3. What are attributes?
4. Draw the symmetry of circle by plotting point, say (2,5)?
5. Define Typeface.
6. Write short note on reflection.
7. Explain viewing transformation.
8. Define clipping. What are the different types of clipping?
9. Define Sweep Representation, give figures.
10. What is Ray-casting method?
11. What is meant by key frame specification?
12. Discuss about various computer animation functions.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Explain the working of 3D display system using vibrating mirror.
14. Use DDA Algorithm and generate a line , whose points are given as (10,15),(15,25)
15. Using Bresenham's Line Drawing Algorithm , digitize the line with endpoints (20,10) and (30,18)
16. Write short note on reflection and shear.
17. Write the four cases of polygon clipping against one edge.
18. Briefly explain Depth cueing,Visible Line Identification,Surface Rendering in detail.
19. Explain Quadtrees in detail.
20. Discuss about various computer animation languages.
21. Describe about different motion specifications.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain various applications of Computer Graphics in detail.
23. Explain various interactive picture construction techniques.
24. Explain Polygon Surfaces and Polygon tables,illustrate with figures.
25. Briefly explain about morphing with suitable examples.

(2×15=30)

