



K21U 4527

Reg. No. :

Name :

**V Semester B.Sc. Degree CBCSS (OBE) Regular Examination, November 2021
(2019 Admn. Only)
CORE COURSE IN COMPUTER SCIENCE
5B11CSC – C : Computer Graphics**

Time : 3 Hours

Max. Marks : 40

**PART – A
(Short answer)**

Answer **all** questions.

(6×1=6)

1. Define Persistence.
2. Write down any four applications of Computer Graphics.
3. What is Non-interactive Computer Graphics ?
4. Define GUI.
5. Write down 3D scaling matrix.
6. What is projection reference point ?

**PART – B
(Short Essay)**

Answer **any 6** questions.

(6×2=12)

7. Write down flood fill algorithm.
8. Brief note on CRT.
9. What is Color and Gray scale image levels ?
10. Briefly explain 2D transformation.
11. What are the steps used to clip a point ?
12. What is Clipping ?
13. What is Polygon Table ?
14. Briefly explain perspective projection.

P.T.O.



PART – C
(Essay)

Answer **any 4** questions.

(4×3=12)

15. Write down Bresenham's line drawing algorithm.
16. What is 2D rotation ?
17. Explain windowing and viewing.
18. Explain Text Clipping.
19. How to represent a 3D object ?
20. Explain Parallel projection.

PART – D
(Long Essay)

Answer **any 2** questions.

(2×5=10)

21. Explain output devices in detail.
 22. What are the basic 2D transformations ? Explain.
 23. Write down midpoint circle algorithm with explanation.
 24. Explain 3D rotations.
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