K23U 2342

Reg. No. : .....

Name : .....

V Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, November 2023
(2019 – 2021 Admissions)
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. List any two applications of computer graphics.
2. What is translation ?
3. What is projection reference point ?
4. What do you mean by scan conversion ?
5. Give the initial decision parameter equation for Bresenhams line drawing algorithm.
6. What is bitmap ?

PART – B
(Short Essay)

Answer **any 6** questions. **(6×2=12)**

7. Explain flood fill algorithm.
8. What is polygon table ?
9. Briefly explain 2D transformations.

P.T.O.

10. Explain text clipping.

11. Give the matrix representation for 2D scaling.

12. Define pixel and resolution.

13. Write a note on gray scale levels.

14. What are polygon meshes ?

PART – C
(Essay)

Answer **any 4** questions. **(4×3=12)**

15. Explain DDA line drawing algorithm.

16. Write a note on display devices.

17. Describe output primitives.

18. Briefly explain window to viewport transformation.

19. Explain parallel projection with an example.

20. Describe homogeneous coordinates.

PART – D
(Long Essay)

Answer **any 2** questions. **(2×5=10)**

21. Explain 3D transformations.

22. Explain Cohen Sutherland algorithm with examples.

23. Describe composite transformations in detail.

24. Explain mid-point circle algorithm with examples.
