K24U 2727

Reg. No. : .....

Name : .....

V Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. Regular/Supplementary/ Improvement) Examination, November 2024
(2019 to 2022 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. What is differential scaling ?
2. What is clip window ?
3. What is the value of initial decision parameter of midpoint circle generating algorithm ?
4. What is translation ?
5. What is rotation ?
6. What is scaling ?

PART – B
(Short Essay)

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

7. What is interior clipping ?
8. What is viewing ?
9. What is a polygon mesh ?
10. What is a viewport ?

P.T.O.

11. What are output primitives ?

12. What is a region code ?

13. Explain 3D rotation about an arbitrary axis.

14. What are homogeneous coordinates ?

PART – C

(Essay)

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

15. Explain hard copy devices.

16. Explain window to viewport transformation.

17. Explain 3D reflection.

18. Two successive translations are additive. Explain.

19. Explain text clipping.

20. Explain perspective projection.

PART – D

(Long Essay)

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

21. Explain midpoint circle generating algorithm.

22. Explain DDA line drawing algorithm.

23. Explain floodfill and boundary fill algorithms.

24. Explain 2D transformations.

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