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Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, APRIL 2022

Fifth Semester

Core Course—COMPUTER GRAPHICS

[For B.Sc. I.T.]

(2013—2016 Admissions)

Time : Three Hours

Maximum Marks : 80

Part A (Short Answer Questions)

Answer all questions.

1 mark each.

1. Expand CRT
2. What is a Pel ?
3. What is a graphic controller ?
4. What is the principle of a touch panel ?
5. What is a Mouse ?
6. What are user co-ordinates ?
7. What is translation in computer graphics ?
8. What is Shear ?
9. What is a quadric surface ?
10. What is a perspective projection ?

(10 × 1 = 10)

Part B (Brief Answer Questions)

Answer any eight questions.

2 marks each.

11. What is a raster scan system ?
12. What is a vector display ?
13. What is the difference between a track ball and space ball ?
14. What is a light pen ?

Turn over





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15. What are device co-ordinates ?
16. What is scaling in computer graphics ?
17. What is area clipping ?
18. What is a polygon mesh ?
19. What is a depth queuing ?
20. What is diffuse reflection ?
21. What is flat shading ?
22. What is a view port ?

(8 × 2 = 16)

Part C (Descriptive/Short Essay Type Questions)

*Answer any **six** questions.*

4 marks each.

23. Explain random scan displays in detail.
24. Explain plasma panel displays in detail.
25. Explain transformation matrix in detail.
26. Explain logical classification of devices.
27. Explain polygon clipping with an algorithm.
28. Explain windowing in detail.
29. Explain curved surfaces in detail.
30. Explain composite transformations in detail.
31. Explain surface shading in detail.

(6 × 4 = 24)

Part D (Long Essays)

*Answer any **two** questions.*

15 marks each.

32. Explain in detail the construction, design and working of a CRT.
33. Explain in detail line clipping and various algorithms for the line clipping.
34. Explain in detail 3D transformations.
35. Explain in detail interactive graphical techniques.

(2 × 15 = 30)

