

Oral question on computer graphics Sem IV

Questions:

1. What is computer graphics.
2. Define raster scan and random scan
3. Difference between random and raster scan
4. Different line drawing algorithm
5. Different circle drawing algorithm
6. Properties of Bezier curve
7. Difference between Bezier and B-spline curve
8. Different polygon filling algorithm
9. What is inside outside test
10. Basic idea of boundary fill
11. Basic idea of flood fill
12. 2d and 3d matrix for translation, scaling and rotation
13. Different shearing and reflection matrix
14. What is shearing
15. What is reflection
16. General idea of fixed point transformation
17. What is composite transformation
18. What is viewing
19. What is clipping
20. Different clipping algorithm
21. Different line clipping algorithm
22. How midpoint subdivision algorithm works
23. Explain logic of region code
24. How we check visibility of line using region code
25. How polygon clipping works
26. Why line clipping is not applicable to polygon clipping algorithm
27. Explain different polygon clipping algorithm
28. What is subject polygon in polygon clipping algorithm
29. Different formula in Cohen-Sutherland line clipping to find clipped coordinates
30. What are different types of projection
31. What is halftoning.
32. What is dithering techniques

33. What is image processing
34. Different components of image processing.
35. Image negative
36. Threshold
37. Log transformation
38. Power law transformation
39. Grey level slicing with and without background
40. What is difference between gray level slicing with and without background
41. Bitplane slicing
42. Define histogram
43. Image subtraction, averaging, addition



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