

OCTOBER 2011

P/ID 17418/RBW

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Write DDA line drawing algorithm.
Or
(b) Discuss about vector graphics.
2. (a) Explain about 2D scaling transformation.
Or
(b) Briefly discuss segment manipulation.
3. (a) (i) Write the conditions for clipping. (3)
(ii) What is multiple windowing? (2)
Or
(b) Explain about the method of echoing.
4. (a) Explain about 3D-translation transformation.
Or
(b) Write the back-face detection algorithm.

5. (a) What is ray tracing? Discuss.

Or

(b) Explain any one of the interpolation algorithms to draw curves.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Briefly discuss any four display devices.

7. Explain polygon filling algorithm.

8. Clearly explain about 2D-reflection and composite transformations.

9. Explain about image transformation.

10. Explain any one of the line clipping algorithms.

11. Describe about perspective projection.

12. Explain Painter's algorithm for hidden surface elimination.

13. Explain the Bezier curve drawing algorithm.

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