

**MAY 2014**

**P/ID 17510/PCASK**

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Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Explain the shadow mask method.
2. Explain DDA Line drawing algorithm.
3. Write notes on Inquiry functions.
4. Describe 2D reflection transformation.
5. Discuss on curve clipping.
6. Explain Weiler –Atherton polygon clipping.
7. Describe 3D translation transformation.
8. Write notes on spline specifications.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Explain the basic operations of a CRT.
10. Discuss on circle generating algorithm.

11. What is Area fill attributes? Explain with examples.
12. Discuss the following 2D Transformation
  - (a) Translation
  - (b) Rotation
  - (c) Scaling
13. Explain Cohen–Sutherland line clipping.
14. What are Input functions? Explain in detail.
15. Explain 3D–rotation transformation with various cases.
16. Explain depth–buffer hidden surface elimination method.
17. Discuss on Bezier curves and their properties.
18. Explain the following
  - (a) Uniform, periodic B–Splines
  - (b) Cubic, periodic B–splines.