

**MAY 2016**

**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. Write short notes on Raster Scan displays.
2. Write about keyboards.
3. What is meant by Translation?
4. What are called Inquiry functions?
5. What is meant by Point clipping?
6. Write short notes on vector method for splitting concave polygons.
7. Write about viewing pipeline.
8. What is meant by polygon surface removal?

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions.

9. Explain LINE functions.
10. Discuss on colour and gray scale levels.

11. Explain matrix representations and Homogeneous co-ordinates.
  12. Discuss on windows-to-viewport coordinate transformation.
  13. Explain Liang-Barksy line clipping algorithm.
  14. Discuss on inheritance Picture-construction techniques.
  15. Illustrate Parallel projections.
  16. Discuss on Back-face detection of a polyhedron.
  17. Explain spline representations.
  18. Discuss on BAZIER CURVES and SURFACES.
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