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B.Tech. Degree V Semester Examination November 2017

CS 15-1506 COMPUTER GRAPHICS (2015 Scheme)

Time : 3 Hours

Maximum Marks : 60

PART A (Answer ALL questions)

(10 × 2 = 20)

- I. (a) Write any two methods for antialiasing.
- (b) Discuss the contents of sorted edge table (SET) in scanline fill algorithm.
- (c) Write homogeneous matrices for rotating a point about a reference point in 2D.
- (d) List four properties of Bezier curve. Compare Bezier splines and B-splines.
- (e) Give the steps involved in reflection about $x = y$ line in terms of reflection about x -axis.
- (f) How is visible surface detection performed in backface detection method?
- (g) What are the factors on which the final projected point depend in perspective projection?
- (h) What is specular reflection? Write one illumination model for specular reflection.
- (i) Discuss different types of fractals. Give one example for each type.
- (j) Discuss important animation techniques.



PART B

(4 × 10 = 40)

- II. (a) Explain DDA line drawing algorithm. (6)
 - (b) Find the points in the line A(10, 5) B(14, 15) using DDA. (4)
- OR**
- III. (a) Describe midpoint circle drawing algorithm. (6)
 - (b) Find the points in a circle with center (10, 8) and radius = 4. (4)
- IV. (a) Discuss the different methods for text clipping with example. (3)
 - (b) Give the final clipped line end points using Cohen Sutherland algorithm for the line A (5, 3) B(12, 8) against the window with boundaries (0,0) and (10, 20). (7)

OR

(P.T.O.)

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Youakim Mobarac



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