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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.)

Computer Graphics Question Paper Unit Wise

Huangqi Zhang



Computer Graphics Question Paper Unit Wise:

Computing and Combinatorics Zhipeng Cai, Alexander Zelikovsky, Anu Bourgeois, 2014-07-05 This book constitutes the refereed proceedings of the 20th International Conference on Computing and Combinatorics COCOON 2014 held in Atlanta GA USA in August 2014 The 51 revised full papers presented were carefully reviewed and selected from 110 submissions There was a co organized workshop on computational social networks CSoNet 2014 where 8 papers were accepted The papers cover the following topics sampling and randomized methods logic algebra and automata database and data structures parameterized complexity and algorithms computational complexity computational biology and computational geometry approximation algorithm graph theory and algorithms game theory and cryptography scheduling algorithms and circuit complexity and CSoNet

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Computers, Control & Information Theory ,1978 **Resources in Education** ,1993 **Computers** H. L. Capron,1990
ASME Technical Papers ,1979 *Abraham dans le Coran* Youakim Moubarac,1987 **Aerospace Medicine and Biology** ,1993 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Australian Education Index** ,1988 **Paper** ,1979 *Computer Concepts* June Jamrich Parsons, Dan Oja, 2006 **SCOPE** ,1983 **Architecture Exam Review** Steven E. O'Hara, David Kent Ballast, 2005
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