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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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L Reisser



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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 Oswaal NTA UGC NET/JRF/SET Paper-1 (Compulsory) | 15 Year's Solved Papers| Chapterwise | Topicwise | Teaching & Research Aptitude | 2015-2023 | For 2024 Exam Oswaal Editorial Board, 2024-02-03 Oswaal NTA UGC NET JRF SET Paper 1 Compulsory 15 Year s Solved Papers Chapterwise Topicwise Teaching Research Aptitude 2015 2023 For 2024 Exam **Documentation Abstracts**, 1995 Resources in Education, 1992-10 Scientific and Technical Aerospace Reports, 1979 Computer Decisions, 1984 New Zealand science abstracts, 1981 A Directory of Computer Software Applications United States. National Technical Information Service, 1980 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 Volume II Nonstructural Topics has been updated to reflect recent exam changes and extensively revised including the addition of 41 new sample questions The book offers a thorough review of the Are nonstructural exam topics including pre design mechanical and electrical systems building design materials and methods energy efficiency and alternative energy sources and sustainable design More than 200 sample questions are provided with solutions along with a valuable checklist of items that should be considered in every design solution This volume also covers test taking strategy and is enhanced by illustrations figures and tables along with a detailed index **Vocational Education Journal**, 1985

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Table of Contents Computer Graphics Question Paper Unit Wise

1. Understanding the eBook Computer Graphics Question Paper Unit Wise
 - The Rise of Digital Reading Computer Graphics Question Paper Unit Wise
 - Advantages of eBooks Over Traditional Books
2. Identifying Computer Graphics Question Paper Unit Wise
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Computer Graphics Question Paper Unit Wise
 - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Graphics Question Paper Unit Wise
 - Personalized Recommendations
 - Computer Graphics Question Paper Unit Wise User Reviews and Ratings
 - Computer Graphics Question Paper Unit Wise and Bestseller Lists
5. Accessing Computer Graphics Question Paper Unit Wise Free and Paid eBooks

- Computer Graphics Question Paper Unit Wise Public Domain eBooks
 - Computer Graphics Question Paper Unit Wise eBook Subscription Services
 - Computer Graphics Question Paper Unit Wise Budget-Friendly Options
6. Navigating Computer Graphics Question Paper Unit Wise eBook Formats
- ePub, PDF, MOBI, and More
 - Computer Graphics Question Paper Unit Wise Compatibility with Devices
 - Computer Graphics Question Paper Unit Wise Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Computer Graphics Question Paper Unit Wise
 - Highlighting and Note-Taking Computer Graphics Question Paper Unit Wise
 - Interactive Elements Computer Graphics Question Paper Unit Wise
8. Staying Engaged with Computer Graphics Question Paper Unit Wise
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computer Graphics Question Paper Unit Wise
9. Balancing eBooks and Physical Books Computer Graphics Question Paper Unit Wise
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computer Graphics Question Paper Unit Wise
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Computer Graphics Question Paper Unit Wise
- Setting Reading Goals Computer Graphics Question Paper Unit Wise
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Computer Graphics Question Paper Unit Wise
- Fact-Checking eBook Content of Computer Graphics Question Paper Unit Wise
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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