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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

**N Noddings**



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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 a 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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table of content next page enhancement adds code to the application data classes to integrate them with jdo as a result of enhancement the enhanced class implements the persistencecapable interface when jdo acts on an application data object it acts on it as a persistencecapable object

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object fields are accessed by their name you must use a name that is unambiguous you may use a simple name for a field within its own class for example we can add a statement within the rectangle class that prints the width and height system out println width and height are width height in this case width and height are

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using transient application data objects and objects of classes that are not persistence capable for parameter values is not

portable across jdo implementations declaring the query s variables the query interface provides a method to declare  
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in order to provide persistent services for the application s data objects jdo must manage the objects within a java virtual machine jvm jdo manages some objects and does not manage other objects if jdo manages an object it manages its persistent state or its transactional state or both

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managers using a persistence manager the application can control the life cycle and caching of application data objects it can get the identity object for a persistent application data object and it can later fetch the persistent object that corresponds to an identity object finally the persistence manager interface has factory methods

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