

Total No. of Questions : 8]

SEAT No. :

P627

[Total No. of Pages : 2

[5869]-249

S.E. (Electronics / E & TC/Electronics & Computer)
OBJECT ORIENTED PROGRAMMING (2019 Pattern)
(Semester - IV)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Use of calculator is allowed.*
- 5) *Assume suitable data if necessary.*

Q1) a) What is operator overloading? Why it is necessary to overload an operator? [6]

b) Write a program in C++ to use scope resolution operator. [6]

c) What is friend function? What are the merits & demerits of using the friend function? [6]

OR

Q2) a) What are the rules for over loading operators. [6]

b) Which operators can not be overloaded? Write steps to overload + operator so that it can add two complex numbers. [6]

c) Write down program to overload unary operators? (Any three operators). [6]

Q3) a) Explain virtual base class & virtual function with example? [6]

b) What does inheritance mean in C++? What are different forms of inheritance? Give example of each. [6]

c) Discuss the ways in which inheritance promotes software reuse, saves time during program development and helps prevent errors. [6]

OR

P.T.O.

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Decoding **Shivaji University Engineering Question Paper First Year**: Revealing the Captivating Potential of Verbal Expression

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Table of Contents Shivaji University Engineering Question Paper First Year

1. Understanding the eBook Shivaji University Engineering Question Paper First Year
 - The Rise of Digital Reading Shivaji University Engineering Question Paper First Year
 - Advantages of eBooks Over Traditional Books
2. Identifying Shivaji University Engineering Question Paper First Year
 - 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 Shivaji University Engineering Question Paper First Year
 - User-Friendly Interface
4. Exploring eBook Recommendations from Shivaji University Engineering Question Paper First Year
 - Personalized Recommendations

- Shivaji University Engineering Question Paper First Year User Reviews and Ratings
- Shivaji University Engineering Question Paper First Year and Bestseller Lists
- 5. Accessing Shivaji University Engineering Question Paper First Year Free and Paid eBooks
 - Shivaji University Engineering Question Paper First Year Public Domain eBooks
 - Shivaji University Engineering Question Paper First Year eBook Subscription Services
 - Shivaji University Engineering Question Paper First Year Budget-Friendly Options
- 6. Navigating Shivaji University Engineering Question Paper First Year eBook Formats
 - ePub, PDF, MOBI, and More
 - Shivaji University Engineering Question Paper First Year Compatibility with Devices
 - Shivaji University Engineering Question Paper First Year Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Shivaji University Engineering Question Paper First Year
 - Highlighting and Note-Taking Shivaji University Engineering Question Paper First Year
 - Interactive Elements Shivaji University Engineering Question Paper First Year
- 8. Staying Engaged with Shivaji University Engineering Question Paper First Year
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Shivaji University Engineering Question Paper First Year
- 9. Balancing eBooks and Physical Books Shivaji University Engineering Question Paper First Year
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Shivaji University Engineering Question Paper First Year
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Shivaji University Engineering Question Paper First Year
 - Setting Reading Goals Shivaji University Engineering Question Paper First Year
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Shivaji University Engineering Question Paper First Year
 - Fact-Checking eBook Content of Shivaji University Engineering Question Paper First Year

- 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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