

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.

# Engineering Question Paper First Year

**Lei Huang**



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## **Table of Contents Engineering Question Paper First Year**

1. Understanding the eBook Engineering Question Paper First Year
  - The Rise of Digital Reading Engineering Question Paper First Year
  - Advantages of eBooks Over Traditional Books
2. Identifying 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 Engineering Question Paper First Year
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Question Paper First Year
  - Personalized Recommendations
  - Engineering Question Paper First Year User Reviews and Ratings
  - Engineering Question Paper First Year and Bestseller Lists
5. Accessing Engineering Question Paper First Year Free and Paid eBooks
  - Engineering Question Paper First Year Public Domain eBooks
  - Engineering Question Paper First Year eBook Subscription Services
  - Engineering Question Paper First Year Budget-Friendly Options
6. Navigating Engineering Question Paper First Year eBook Formats

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