

B.Sc.IT: Semester – III
[Object Oriented Programming With C++]
Question Paper (April – 2015) [Revised Course]

- Kamal T.

Time: 3 Hours

Total Marks: 100

- N.B.: (1) Questions No. 1 is Compulsory.
(2) Every Question has an option.
(3) All questions carry equal marks.

Q.1 Attempt Any Two Question: (10 Marks)

- (A) Write a C++ Program to multiply two complex numbers using Binary Operator Overloading. (5)
(B) Explain Polymorphism with example. (5)

Q.2 Attempt Any Three From The Following: (15 Marks)

- (A) What is Object and Class? Explain with example. (5)
(B) Differentiate between Procedural & Object Oriented Approach. (5)
(C) Define the term Data Abstraction and Data Encapsulation. (5)
(D) Differentiate between Structure & class. (5)

Q.3 Attempt Any Three From The Following: (15 Marks)

- (A) Explain Static Data Member and Static Member Function. (5)
(B) Explain what is a Destructor with suitable program. (5)
(C) Explain dynamic constructor with example. (5)
(D) How the member function can define inside class and outside the class. (5)

Q.4 Attempt Any Three From The Following: (15 Marks)

- (A) What is Operator Overloading? Write the rules to Overload Operator. (5)
(B) Explain Friend Class with suitable example. (5)
(C) Explain the different types of type conversions. (5)
(D) Write a C++ Program for overloading the Unary Operator ++. (5)

Q.5 Attempt Any Three From The Following: (15 Marks)

- (A) Explain the different types of File Mode. (5)
(B) What is Pure Virtual Member Function? Explain. (5)
(C) Design a class for a single level inheritance using public and private type derivation. (5)
(D) What is an Abstract Class? Explain. (5)

Sample Question Paper For Object Oriented Programming

Thomas Griffiths



Sample Question Paper For Object Oriented Programming:

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Tuples dictionaries are also discussed with necessary examples and illustrations The book includes the concepts of functions lambda functions modules and strings In the later part of this book the concept of object oriented programming using Python is discussed in detail Finally how to handle files and directories using Python is discussed At the end of book some sample programs in Python are given that are based on the programming constructs Python will be most demanded language after Java in future So learning Python is need for today s software professionals This book serves the purpose of teaching Python programming in the simplest and easiest manner

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Table of Contents Sample Question Paper For Object Oriented Programming

1. Understanding the eBook Sample Question Paper For Object Oriented Programming
 - The Rise of Digital Reading Sample Question Paper For Object Oriented Programming
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Question Paper For Object Oriented Programming
 - 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 Sample Question Paper For Object Oriented Programming
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Question Paper For Object Oriented Programming
 - Personalized Recommendations
 - Sample Question Paper For Object Oriented Programming User Reviews and Ratings
 - Sample Question Paper For Object Oriented Programming and Bestseller Lists

5. Accessing Sample Question Paper For Object Oriented Programming Free and Paid eBooks
 - Sample Question Paper For Object Oriented Programming Public Domain eBooks
 - Sample Question Paper For Object Oriented Programming eBook Subscription Services
 - Sample Question Paper For Object Oriented Programming Budget-Friendly Options
6. Navigating Sample Question Paper For Object Oriented Programming eBook Formats
 - ePub, PDF, MOBI, and More
 - Sample Question Paper For Object Oriented Programming Compatibility with Devices
 - Sample Question Paper For Object Oriented Programming Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Question Paper For Object Oriented Programming
 - Highlighting and Note-Taking Sample Question Paper For Object Oriented Programming
 - Interactive Elements Sample Question Paper For Object Oriented Programming
8. Staying Engaged with Sample Question Paper For Object Oriented Programming
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Question Paper For Object Oriented Programming
9. Balancing eBooks and Physical Books Sample Question Paper For Object Oriented Programming
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Question Paper For Object Oriented Programming
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sample Question Paper For Object Oriented Programming
 - Setting Reading Goals Sample Question Paper For Object Oriented Programming
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sample Question Paper For Object Oriented Programming
 - Fact-Checking eBook Content of Sample Question Paper For Object Oriented Programming
 - 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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 $2 \text{ CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) \rightarrow \text{C}_2\text{H}_2(\text{g}) + \frac{5}{2} \text{O}_2(\text{g})$ $\Delta H = 94.5 \text{ kJ}$
 $\text{H}_2\text{O}(\text{g}) + \frac{1}{2} \text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l})$ $\Delta H = 71.2 \text{ kJ}$
 $\text{C}_2\text{H}_6(\text{g}) + \frac{7}{2} \text{O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{g})$ $\Delta H = 283 \text{ kJ}$

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 $\text{C}_2\text{H}_4(\text{g}) + 3 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 2 \text{ H}_2\text{O}(\text{l})$ $\Delta H = 1411 \text{ kJ}$
 $\text{C}_2\text{H}_6(\text{g}) + \frac{7}{2} \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{l})$ $\Delta H = 1560 \text{ kJ}$
 $\text{H}_2(\text{g}) + \frac{1}{2} \text{ O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l})$ $\Delta H = 285 \text{ kJ}$

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web thus for reaction 9 2 in which 1 mole of H_2O and 1 mole of OH^- combine to form 2 moles of H_2O $\Delta H = -55.8 \text{ kJ}$ as shown note that the enthalpy change $\Delta H_{\text{products}} - \Delta H_{\text{reactants}}$ is positive if heat is absorbed that is if $\Delta H_{\text{products}} > \Delta H_{\text{reactants}}$

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web 3 12 hess s law in this experiment you will measure the amount of heat released in these three related exothermic reactions $\text{NaOH} + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O}$ $\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$ $\text{NaOH} + \text{H}_3\text{PO}_4 \rightarrow \text{Na}_3\text{PO}_4 + \text{H}_2\text{O}$

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