

Section A: Objective Type Questions

Q1. Choose the appropriate Answer: (8x1.5=12)

- i. Which of the following is used for comments in C++?
A // comment */ B /* comment */
C // comment D both // comment or /* comment */
- ii. Which of the following is not a type of Constructor in C++?
A Default constructor B Default constructor
C Friend constructor D Copy constructor
- iii. What is virtual inheritance in C++?
A C++ technique to ensure that a private member of the base class can be accessed somehow
B C++ technique to avoid multiple copies of the base class into children/derived class
C C++ technique to avoid multiple inheritances of classes
D C++ technique to enhance multiple inheritance
- iv. Which of the following is correct about this pointer in C++?
A this pointer is passed as a hidden argument in all static variables of a class
B this pointer is passed as a hidden argument in all the functions of a class
C this pointer is passed as a hidden argument in all non-static functions of a class
D this pointer is passed as a hidden argument in all static functions of a class

- v. What should be put in a try block?
1. Statements that might cause exceptions
2. Statements that should be skipped in case of an exception
A Only 1 B Only 2
C Both 1 & 2 D None of the above
- vi. What happens in C++ when an exception is thrown and not caught anywhere like following program.
A Compile time error B Program terminates abnormally
C Program runs smoothly D None of the above.
- vii. What is dynamic Polymorphism
A Achieved through function overloading
B Achieved using pointers and references to base class objects
C Achieved through function overriding
D Achieved through template class
- viii. Which keyword is used to achieve runtime polymorphism
A Override B Polymorphic
C Final D Virtual

Section-B: Descriptive Type Questions (Short Type)

Q2: Answer all the Questions (8 x 4 =32)

- i. What are the advantages of object oriented programming?
- ii. What is a loop in programming language? Write syntax of do-while loop.
- iii. What is a friend class? How friend class differs from friend function.
- iv. Write a short note on array of objects used in C++.
- v. What is a virtual base class? What purpose does it serve in inheritance?

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- vi. What is a pointer? What is the difference between Call by Value and call by reference method?
- vii. How exception handling is dealt in C++.
- viii. List some of the important differences between Generic functions and Generic classes.

Section – C: Descriptive Type Questions (Medium Type)

Answer all the questions: (4 x 7=28)

- Q3.** What is the significance of object in object oriented programming language? How object oriented languages differ from procedural oriented programming languages.

OR

What is an operator in a programming language? Write a program showcasing decision making statements.

- Q4.** What is a class in C++? What is the difference between public, private, and protected access specifiers in a class?

OR

Write a program to show use of a friend function.

- Q5.** What is virtual base class? List out main difference between virtual function and pure virtual functions.

OR

Why do we use access modifiers in C++? Write a short note on dynamic allocation operators.

- Q6.** What are the advantages of Generic programming?

OR

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Write a program to show use of try, catch and throw keywords in c++.

Section – D: Descriptive Type Questions (Long Type)

Answer any two of the following: (2 x 14=28)

- Q7.** What is an object in object oriented programming paradigm? Discuss in detail main features of object oriented programming with examples.
- Q8.** What is an inline function? Write a program to show use of NEW and DELETE operators in C++.
- Q9.** Does C++ support code reusability, support your argument with an example. Explain briefly different inheritance types supported by C++ programming language.
- Q10.** Write a program to show use of multiple catch statements.

Answer Key for Course No: Please Mention Course No & Course Title