

Course
&
Test Series

Objects and Classes

Time: 45 Minutes

Marks : 50

Note: All questions are compulsory

Section A(5*1=5)
MCQ Questions

Ques 1: Which of the following best describes a class in C++?

- A) A function that performs a specific task
- B) A blueprint for creating objects
- C) A variable that stores data
- D) A pointer to a memory location

Ques 2: Which of the following is the correct syntax to define a class in C++?

- A) class MyClass {};
- B) object MyClass {};
- C) define class MyClass {};
- D) new class MyClass {};

Ques 3: What is the default access specifier for members of a C++ class?

- A) public
- B) protected
- C) private
- D) friend

Ques 4: What is the main purpose of a friend function in C++?

- A) To allow a function to access private and protected members of a class
- B) To create objects of a class
- C) To destroy objects of a class
- D) To define multiple constructors

Ques 5: Which keyword is used to declare a friend function?

- A) friend
- B) private
- C) public
- D) protected

Section B(5*5=25)
Descriptive Questions

Ques 6: Explain the concept of a class and an object in C++. Give examples.

Ques 7: Define access specifiers in C++. Explain private, public, and protected access specifiers.

Ques 8: What is a destructor? How is it different from a constructor?

Ques 9: What is a friend function in C++? Explain its importance with an example.

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Ques 10: Explain the rules for declaring a friend function in C++.

Section C(1*20=20)
Practical Questions

Ques 11:

- (a) Write a class BankAccount with private data members accountNumber and balance. Write public member functions to deposit money, withdraw money, and display the balance. (10 Marks)
- (b) Define a class Rectangle with private members length and width. Write a friend function to calculate and return the area. (10 Marks)

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