

Course
&
Test Series

Exam Paper for Inheritance in C Plus Plus

Time: 45 Minutes

Marks : 50

Note: All questions are compulsory

Section A(5*1=5)
MCQ Questions

Ques 1: Inheritance helps in achieving:

- a) Polymorphism
- b) Recursion
- c) Compile-time linking
- d) Memory allocation

Ques 2: Protected members become what in private inheritance?

- a) public
- b) protected
- c) private
- d) inaccessible

Ques 3: What is inherited in private inheritance?

- a) All members publicly
- b) Only private members
- c) All members but change access to private
- d) Nothing

Ques 4: Hierarchical inheritance is when:

- a) One derived class inherits from multiple base classes
- b) One base class has multiple derived classes
- c) Both base and derived form a hybrid
- d) None

Ques 5: Hybrid inheritance is a combination of:

- a) Single + multilevel + hierarchical
- b) Two types only
- c) Only multiple inheritance
- d) No inheritance

Section B(5*5=25)
Descriptive Questions

Ques 6: Explain different types of inheritance supported by C++?

Ques 7: Explain public, private, and protected access specifiers?

Ques 8: Define single inheritance. Explain its syntax with a C++ code example?

Ques 9: Define hybrid inheritance. Explain its structure with a diagram?

Ques 10: What problems can arise in multilevel inheritance? How are they handled?

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Section C(1*20=20)
Practical Questions

Ques 11:

- (a) Write a C++ program to demonstrate single inheritance.
Create a base class Person with name and age, and a derived class Student with marks.
Display complete details using an object of Student. (10 Marks)
- (b) Write a C++ program to demonstrate function overriding using a base class Shape and a derived class Circle.
Both should have a function area(). Call area() using base class pointer.(10 Marks)

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