



C++ Inheritance Test

This Test will cover Inheritance concepts of C++.

Q. For below code snippet, the public and protected members of Superclass becomes _____ members of Sub class.

```
class subclass : protected Superclass
```

- A. public
- B. private
- C. protected
- D. None of the above

Correct Answer : OPTION C, Protected

Q. What will be the output of following code ?

```
#include <iostream>
using namespace std;

class Animal
{
public:
int legs = 4;
};

class Dog : public Animal
{
public:
int tail = 1;
};

int main()
{
Dog d;
cout << d.legs;
cout << d.tail;
}
```

A. error

B. 44

C. 40

D. 41

Correct Answer : OPTION D, 4 1

Q. Do base class and its object have any knowledge about any classes derived from base class?

A. Yes

B. No

Correct Answer : OPTION B, No

Q. What is Multiple Inheritance ?

- A. Deriving a class from Base class
- B. Deriving a derived class from two and more class
- C. Deriving two or more class from a base class
- D. None of the above

Correct Answer : OPTION B, Deriving a derived class from two and more class.

Q. Whenever you create derived class object, first the base class default constructor is executed and then the derived class constructor?

- A. true
- B. false

Correct Answer : OPTION A

Q. Which of the following Function is not inherited?

- A. constructor
- B. destructor
- C. Assignment operator(=)
- D. All of the above

Correct Answer : OPTION D, All of the above(constructor, destructor, Assignment operator(=))

Q. What will be the output of following code?

```
#include <iostream>
using namespace std;

class Base
{
public:
    Base() { cout << "Base"; }
};

class Derived : public Base
{
public:
    Derived(int i) { cout << i; }
};

int main()
{
    Derived d2(10);
    return 0;
}
```

A. Base10

B. 10

C. 10Base

D. error

Correct Answer : OPTION A

Q. What will be the output of following code?

```
#include <iostream>
using namespace std;

class A
{
    int x;
};

class B : public A
{
public:
    void show()
    {
        x=10;
        cout << x;
    }
};

int main()
{
    B b;
    b.show();
    return 0;
}
```

- A. 10
- B. 0
- C. error
- D. garbage value

Correct Answer : OPTION C, error

Q. Which symbol is used to create multiple inheritance ?

- A. Dot(.)
- B. Comma(,)
- C. Colon(:)
- D. None of the above

Correct Answer : OPTION B, Comma(,)

Q. All members of a Base class including private member are inherited in Derived class.

A. true

B. false

Correct Answer : OPTION A, true. Private members are inherited but are not accessible.

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