



C++ Programming MCQs Test 7

This Test will cover complete C++ with very important questions, starting off from basics to advanced level.

Q. Which of the following is the correct way of declaring a function as constant ?

- A. `const int ShowData(void) { /* statements */ }`
- B. `int const ShowData(void) { /* statements */ }`
- C. `int ShowData(void) const { /* statements */ }`
- D. Both A and B

Correct Answer : OPTION C, `int ShowData(void) const { /* statements */ }`

Q. Which of the following factors support the statement that, Reusability is a desirable feature of a language?

- A. It decreases the testing time.
- B. It lowers the maintenance cost.
- C. It reduces the compilation time.
- D. Both A and B.

Correct Answer : OPTION D, Both A and B.

Q. Which of the following is a mechanism of Static Polymorphism?

- A. Operator overloading
- B. Function overloading
- C. Templates
- D. All of the above

Correct Answer : OPTION D, All of the above

Q. What happens if the base and derived class contains definition of a function with same prototype?

- A. Compiler reports an error on compilation.
- B. Only base class function will get called irrespective of object.
- C. Only derived class function will get called irrespective of object.
- D. Base class object will call base class function and derived class object will call derived class function.

Correct Answer : OPTION D, Base class object will call base class function and derived class object will call derived class function.

Q. Pick up the valid declaration for overloading ++ in postfix, where T is the class name?

- A. T operator++();
- B. T operator++(int);
- C. T& operator++();
- D. T& operator++(int);

Correct Answer : OPTION B, T operator++(int);. The parameter int is just to signify that it is the postfix form overloaded. Shouldn't return reference as per its original behavior.

Q. In which of the following a virtual call is resolved at the time of compilation?

- A. From inside the destructor.
- B. From inside the constructor.
- C. From inside the main().
- D. Both A and B.

Correct Answer : OPTION D, Both A and B.

Q. Which one of the following is the correct way to declare a pure virtual function?

- A. `virtual void Display(void){0};`
- B. `virtual void Display = 0;`
- C. `virtual void Display(void) = 0;`
- D. `void Display(void) = 0;`

Correct Answer : OPTION C, virtual void Display(void) = 0;

Q. What is the output of the following C++ program?

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

int main()
{
    char *s = "Fine";
    *s = 'N';
    cout << (s) << endl;
    return 0;
}
```

- A. Fine
- B. Nine
- C. Compile error
- D. Runtime error

Correct Answer : OPTION D, Runtime error. *s='N', trying to change the character at base address to 'N' of a constant string leads to runtime error.

Q. What is the output of the following C++ program?

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

class Base
{
public:
    void f()
    {
        cout << "Base\n";
    }
};

class Derived : public Base
{
public:
    void f()
    {
        cout<<"Derived\n";
    }
};

int main()
{
    Derived obj;
    obj.Base::f();
    return 0;
}
```

- A. Base
- B. Derived

- C. Compile error
- D. None of the above.

Correct Answer : OPTION A, Base.

Q. What is correct about the static data member of a class?

- A. A static member function can access only static data members of a class.
- B. A static data member is shared among all the object of the class.
- C. A static data member can be accessed directly from main().
- D. Both A and B.

Correct Answer : OPTION D, Both A and B.

Q. Which of the following provides a reusable mechanism?

- A. Abstraction
- B. Inheritance
- C. Dynamic binding
- D. Encapsulation

Correct Answer : OPTION B, Inheritance

Q. What does the following statement mean?

```
int (*fp)(char*)
```

- A. pointer to a pointer
- B. pointer to an array of chars

- C. pointer to function taking a char* argument and returns an int
- D. function taking a char* argument and returning a pointer to int

Correct Answer : OPTION C, pointer to function taking a char* argument and returns an int

Q. What is the output of the following C++ program?

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

int main()
{
    int a[] = {10, 20, 30};
    cout << *a+1;
}
```

- A. 10
- B. 20
- C. 11
- D. 21

Correct Answer : OPTION C, 11. *a refers to 10 and adding a 1 to it gives 11.

Q. Choose the pure virtual function definition from the following.

- A. virtual void f()=0 { }
- B. void virtual f()=0 { }
- C. virtual void f() {}=0;
- D. None of the above.

Correct Answer : OPTION D, None of the above. A pure virtual function cannot have a definition.

Q. What is the output of the following C++ program?

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

int main()
{
    int i = 1, j = 2, k = 3, r;
    r = (i, j, k);
    cout << r << endl;
    return 0;
}
```

- A. 1
- B. 2
- C. 3
- D. Compile Error

Correct Answer : OPTION C, 3. Comma is called as the separator operator and the associativity is from left to right. Therefore 'k' is the expressions resultant.

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