

Objective Questions (15)

What is the correct syntax for declaring a constant integer in C++?

- a) `const int x;`
- b) `int const x;`
- c) `const int x = 10;`
- d) Both a and c

What is the output of the following code?

cpp

Copy code

```
#include <iostream>
```

```
int main() {
```

```
    int x = 10;
```

```
    std::cout << (x > 5 ? x : 5);
```

```
    return 0;
```

```
}
```

- a) 5
- b) 10
- c) 15
- d) 0

Which of the following access specifiers allows access only within the class itself and its derived classes?

- a) `public`

b) private

c) protected

d) friend

What will be the output of the following code?

cpp

Copy code

```
#include <iostream>
```

```
class Base {
```

```
public:
```

```
    virtual void show() { std::cout << "Base"; }
```

```
};
```

```
class Derived : public Base {
```

```
public:
```

```
    void show() override { std::cout << "Derived"; }
```

```
};
```

```
int main() {
```

```
    Base* b = new Derived();
```

```
    b->show();
```

```
    delete b;
```

```
    return 0;
```

```
}
```

a) Base

b) Derived

c) BaseDerived

d) Compilation error

What is the output of the following code?

cpp

Copy code

```
#include <iostream>
```

```
int main() {
```

```
    int arr[3] = {1, 2, 3};
```

```
    std::cout << arr[2];
```

```
    return 0;
```

```
}
```

a) 1

b) 2

c) 3

d) Compilation error

Which keyword is used to prevent a class from being instantiated?

a) final

b) abstract

c) static

d) virtual

What will be the output of the following code?

cpp

Copy code

```
#include <iostream>
```

```
int main() {
```

```
    int x = 5;
```

```
    int& y = x;
```

```
    y = 10;
```

```
    std::cout << x;
```

```
    return 0;
```

```
}
```

a) 5

b) 10

c) 15

d) Compilation error

Which of the following is the correct way to declare a pure virtual function in C++?

a) virtual void func() = 0;

b) virtual void func();

c) void func() = 0;

d) pure virtual void func();

What is the output of the following code?

cpp

Copy code

```
#include <iostream>
```

```
int main() {
```

```
const char* str = "Hello";  
  
str[0] = 'J';  
  
std::cout << str;  
  
return 0;  
  
}
```

- a) Hello
- b) Jello
- c) Compilation error
- d) Runtime error

Which operator is used to access the members of a class through a pointer?

- a) ->
- b) .
- c) *
- d) ::

What is the result of the following code?

cpp

Copy code

```
#include <iostream>
```

```
int main() {
```

```
    int a = 5;
```

```
    int b = 10;
```

```
    int c = a + b;
```

```
    std::cout << c;
```

```
        return 0;  
    }
```

- a) 5
- b) 10
- c) 15
- d) Compilation error

Which of the following is used to define a constant value in C++?

- a) const
- b) static
- c) final
- d) volatile

What will be the output of the following code?

cpp

Copy code

```
#include <iostream>  
  
int main() {  
    int x = 10;  
    std::cout << ++x * 2;  
    return 0;  
}
```

- a) 20
- b) 22
- c) 30

d) 40

Which type of inheritance is also known as multiple inheritance in C++?

a) Single Inheritance

b) Multi-level Inheritance

c) Hierarchical Inheritance

d) Diamond Inheritance

What is the output of the following code?

cpp

Copy code

```
#include <iostream>
```

```
void func(int a, int b = 2) {
```

```
    std::cout << a + b;
```

```
}
```

```
int main() {
```

```
    func(3);
```

```
    return 0;
```

```
}
```

a) 5

b) 3

c) 7

d) Compilation error

ANSWERS :-

1.d

2.b

3.c

4.b

5.c

6.b

7.b

8.a

9 d

10.a

11.c

12.a

13.b

14.d

15 a