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)Both a and c**

**2 B)10**

**3 C) protected**

**4 B)Derived**

**5 C)3**

**6 B)Abstract**

**7 B) 10**

**8 A)virtual void func() = 0**

**9 D)Runtime error**

**10 A) ->**

**11 C) 15**

**12 A)const**

**13 B)22**

**14 B)Diamond Inheritance**

**15 A)5**