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

Ans: d

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

Ans: b

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

Ans: c

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

Ans: b

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

Ans: c

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

a) final

b) abstract

c) static

d) virtual

Ans: b

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

Ans: b

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();

Ans: a

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

Ans: d

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

a) ->

b) .

c) \*

d) ::

Ans: a

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

Ans: c

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

a) const

b) static

c) final

d) volatile

Ans: a

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

Ans: b

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

Ans: d

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

Ans: a