

Day -11 C++ Quiz

1. Objective Questions (15)

1) 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

Both a and c

2) What is the output of the following code?

Copy code

```
#include <iostream>

int main() {
    int x = 10;
    std::cout << (x > 5 ? x : 5);
    return 0;
}
```

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

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

- a) `public`
- b) `private`
- c) `protected` **Ans**

d) friend

protected

4) What will be the output of the following code?

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

b) Derived

5) What is the output of the following code?

Copy code

```
#include <iostream>

int main() {

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

    std::cout << arr[2];

    return 0;

}
```

- a) 1
- b) 2
- c) 3 **Ans**
- d) Compilation error

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

- a) final
- b) abstract **Ans**
- c) static
- d) virtual

7) 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 **Ans**
- c) 15
- d) Compilation error

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

- a) virtual void func() = 0; **Ans**
- b) virtual void func();
- c) void func() = 0;
- d) pure virtual void func();

9) 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**

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

a) -> **Ans**

b) .

c) *

d) ::

11) 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 **Ans**

d) Compilation error

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

a) const **Ans**

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

13) 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 **Ans**
- c) 30
- d) 40

14) 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**

15) 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 **Ans**
- b) 3
- c) 7
- d) Compilation error