

Student Result

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Exam: C++

Score: 39.0/45.0

Percentage: 86.67%

Question-wise Summary

Sr.no	Question	Selected Answer	Correct Answer
1	<p>What will be the output of the following C++ program?</p> <pre>#include <iostream> using namespace std; int main() { #include <cmath> cout << sqrt(25); return 0; }</pre>	Compilation error	Compilation error

2	<p>What will be the output of the following C++ program?</p> <pre>#include <iostream> using namespace std; int main() { cout << "Hello World"; return 0; }</pre>	Hello World	Hello World
3	<p>What will be the output of the following C++ program?</p> <pre>#include <iostream> using namespace std; int main() { float x = 5.75; int y = 3; cout << x / y; return 0; }</pre>	1	1.91

4	What will be the output of the following program? <pre>#include <iostream> using namespace std; int main() { double d = 5.7; int i = static_cast<int>(d); cout << i; return 0; }</pre>	5	5
5	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; int main() { const int x = 10; x = 20; cout << x; return 0; }</pre>	Compilation Error	Compilation Error

6	What will be the output of the following C++ code? <pre>#include <iostream> using namespace std; int main() { int x = 5, y = 3; cout << (x & y); return 0; }</pre>	1	1
7	What will be the output of the following program? <pre>#include <iostream> using namespace std; int main() { int x = 5; cout << ++x << " " << x++ << " " << x; return 0; }</pre>	6 7 7	6 6 7

8

What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
int main() {
    int x = 10, y = 20;
    if (x < y) { cout << "x is less than y"; }
    else if (x > y) { cout << "x is greater than y"; }
    else { cout << "x is equal to y"; }
    return 0;
}
```

x is less than y

x is less than y

9	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; int main() { for (int i = 0; i < 5; i++) { cout << i << " "; } return 0; }</pre>	0 1 2 3 4	0 1 2 3 4
10	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; int main() { for (int i = 0; i < 5; i++) { if (i == 3) { continue; } cout << i << " "; } return 0; }</pre>	0 1 2 4	0 1 2 4

11

What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
void displayMessage()
{ cout << "Hello from function!";
}
int main() {
displayMessage();
return 0;
}
```

**Hello
from
function!**

**Hello
from
function!**

12

What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
void display(int a) { cout << "Integer: " << a; }
void display(double a) { cout << "Double: " << a; }
int main()
{
    display(5);
    display(3.14);
    return 0;
}
```

Integer:
5
Double:
3.14

Integer:
5
Double:
3.14

13

What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
void greet(string name, string message = "Hello")
{ cout << message << ", " << name; }
int main()
{
    greet("Alice");
    return 0;
}
```

**Alice,
Hello**

**Hello,
Alice**

14	<p>What will be the output of the following C++ program?</p> <pre>#include <iostream> using namespace std; void countDown(int n) { if (n > 0) { cout << n << " "; countDown(n - 1); } } int main() { countDown(3); return 0; }</pre>	3 2 1	3 2 1
15	<p>What will be the output of the following C++ program?</p> <pre>#include <iostream> using namespace std; inline int square(int x) { return x * x; } int main() { cout << square(5); return 0; }</pre>	25	25

16

What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
void displayMessage()
{ cout << "Function Pointer Example!";
}
int main() {
void (*funcPtr)()
= displayMessage;
funcPtr();
return 0;
}
```

**Function
Pointer
Example!**

**Function
Pointer
Example!**

17	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; int main() { auto add = [](int a, int b) { return a + b; }; cout << add(3, 4); return 0; }</pre>	7	7
18	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; int main() { int arr[3] = {10, 20, 30}; cout << arr[1]; return 0; }</pre>	20	20

19

What will be the output of the following C++ program?
#include <iostream>
using namespace std; int main() { int arr[2][3] = {{1, 2, 3}, {4, 5, 6}}; cout << arr[1][2]; return 0; }

6

6

20

What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
void printArray(int arr[], int size) {
    for (int i = 0; i < size; i++) {
        cout << arr[i] << " ";
    }
}
int main() {
    int arr[3] = {1, 2, 3};
    printArray(arr, 3);
    return 0;
}
```

1 2 3

1 2 3

21	<p>What will be the output of the following C++ program?</p> <pre>#include <iostream> using namespace std; int main() { char str[] = "Hello"; cout << str; return 0; }</pre>	Hello	Hello
22	<p>What will be the output of the following C++ program?</p> <pre>#include <iostream> #include <string> using namespace std; int main() { string str = "C++ Programming"; cout << str.substr(4, 5); return 0; }</pre>	Programming	Prog

23

What will be the output of the following C++ program?

```
#include <iostream>
#include <cstring>
using namespace std;
int main() {
    char str1[] = "Hello";
    char str2[] = "World";
    strcat(str1, str2);
    cout << str1;
    return 0;
}
```

HelloWorld

HelloWorld

24

What will be the output of the following C++ program?

```
#include <iostream>
#include <sstream>
using namespace std;
int main() {
    stringstream ss;
    ss << "C++" << " " << 2024;
    string result = ss.str();
    cout << result;
    return 0;
}
```

C++
2024

C++
2024

25	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; int main() { int num = 10; int* ptr = &num; cout << *ptr; return 0; }</pre>	10	10
26	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; int main() { int a = 20; int* p = &a; *p = 30; cout << a; return 0; }</pre>	30	30

27	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; int main() { int arr[3] = {1, 2, 3}; int* ptr = arr; cout << *(ptr + 1); return 0; }</pre>	2	2
28	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; int main() { int* ptr = new int(5); cout << *ptr; delete ptr; return 0; }</pre>	5	5

29	<p>What will be the output of the following C++ program?</p> <pre>#include <iostream> using namespace std; int main() { int* ptr = new int(10); // Memory leak, no delete return 0; }</pre>	<p>No output, but there is a memory leak</p>	<p>No output, but there is a memory leak</p>
30	<p>What will be the output of the following C++ program?</p> <pre>#include <iostream> #include <memory> using namespace std; int main() { unique_ptr<int> ptr(new int(100)); cout << *ptr; return 0; }</pre>	<p>Compilation Error</p>	<p>100</p>

31

```
What will  
be the  
output of  
the  
following  
C++  
program?  
#include  
<iostream>  
using  
namespace  
std; void  
displayMessage()  
{ cout <<  
"Hello  
from  
function  
pointer!";  
} int  
main() {  
void  
(*funcPtr)()  
=  
displayMessage;  
funcPtr();  
return 0;  
}
```

**Hello
from
function
pointer!**

**Hello
from
function
pointer!**

32

What will be the output of the following C++ program?
#include <iostream>
using namespace std; int main() {
const char* arr[] = {"Apple", "Banana", "Cherry"};
cout << arr[1];
return 0;
}

Banana

Banana

33

What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
void display(int a) { cout << a << " "; }
int main() { void (*funcPtr)(int) = display; int arr[3] = {10, 20, 30}; for (int i = 0; i < 3; i++) { funcPtr(arr[i]); } return 0; }
```

10 20 30

10 20 30

34	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; int main() { int arr[3] = {1, 2, 3}; int* ptr = arr; cout << *(ptr + 2); return 0; }</pre>	3	3
35	What will be the output of the following C++ program? <pre>#include <iostream> using namespace std; class MyClass { public: int x; MyClass() { x = 10; } }; int main() { MyClass obj; cout << obj.x; return 0; }</pre>	10	10

36

What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
class Rectangle
{ public:
int length, width;
Rectangle(int l, int w) {
length = l; width = w; }
};
int main() {
Rectangle rect(5, 10);
cout << rect.length << " " << rect.width;
return 0;
}
```

5 10

5 10

37

What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
class Circle {
public:
double radius;
void setRadius(double r) {
radius = r; }
double getArea() { return 3.14 * radius * radius; }
};
int main() {
Circle c;
c.setRadius(5);
cout << c.getArea();
return 0;
}
```

78.5

78.5

38

What will be the output of the following C++ program?

```
#include <iostream>
using namespace std;
class Test {
public:
    Test() {
        cout << "Constructor called" << endl; }
    ~Test() {
        cout << "Destructor called" << endl; }
};
int main() {
    Test obj;
    return 0;
}
```

Constructor called
Destructor called

Constructor called
Destructor called

39

What will be the output of the following C++ program?
#include <iostream>
using namespace std; class MyClass { public: int value; MyClass() { value = 5; } }; int main() { MyClass obj; cout << obj.value; return 0; }

5

5

40

What will be the output of the following C++ program?
#include <iostream>
using namespace std; class Box {
public: int length;
Box(int l) { length = l; };
int main() {
Box b(10);
cout << b.length;
return 0;
}

0

10

41

```
What will be the output of the following C++ program?  
#include <iostream>  
using namespace std;  
class Animal {  
public:  
void sound() {  
cout << "Animal Sound" << endl; }  
};  
class Dog : public Animal {  
public:  
void bark() {  
cout << "Bark" << endl; }  
};  
int main() {  
Dog d;  
d.sound();  
d.bark();  
return 0;  
}
```

**Animal
Sound
Bark**

**Animal
Sound
Bark**

42

```
What will be the output of the following C++ program?  
#include <iostream>  
using namespace std;  
class Complex {  
public: int real, imag;  
Complex() : real(0), imag(0) {}  
Complex operator + (const Complex& c) {  
Complex temp;  
temp.real = real + c.real;  
temp.imag = imag + c.imag;  
return temp; }  
void display() {  
cout << real << " + i" << imag << endl; }  
};  
int main() {  
Complex c1, c2;  
c1.real = 5;  
c1.imag = 3; c2.real = 2; c2.imag = 4;  
Complex c3 = c1 + c2;  
c3.display();  
return 0; }
```

7 + i7

7 + i7

43

What will be the output of the following C++ program?
#include <iostream>
using namespace std; int main() {
int a = 5,
b = 10;
cout << (a + b) * (a > b) << endl;
return 0;
}

0

0

44

What will be the output of the following C++ program that checks for an out-of-bounds access on a 2D array?

```
#include <iostream>
using namespace std;
int main() {
    int arr[2][2] = {{1, 2}, {3, 4}};
    cout << arr[2][2] << endl;
    // Out of bounds
    return 0;
}
```

Undefined behavior

Undefined behavior

45

What will be the output of the following C++ program that reverses each word in a string?

```
#include <iostream>
#include <sstream>
using namespace std;
int main() {
    string str = "hello world";
    stringstream ss(str);
    string word;
    while (ss >> word)
    {
        reverse(word.begin(), word.end());
        cout << word << " ";
    }
    return 0;
}
```

**olleh
dlrow**

**olleh
dlrow**