## • Question 1

1 out of 1 points

A control structure alters the normal sequential flow of execution in a program.

Answer

Selected Answer: <a> True</a>

Correct Answer: <a>True</a>

#### • Question 2

0 out of 1 points

The symbol > is a logical operator.

\_\_\_ Answer

Selected Answer: **✓** False

Correct Answer: ✓ False

## • Question 3

0 out of 1 points

In C++, both ! and != are relational operators.

\_\_\_ Answer

Selected Answer: ✓ False

Correct Answer: **✓** False

#### • Question 4

1 out of 1 points

In C++, the logical operator AND is &&.

Answer

Selected Answer: ✓ True

Correct Answer: ✓ True

# • Question 5

1 out of 1 points

In C++, !, &&, and | | are called relational operators.

Answer

Selected Answer: ✓ False

Correct Answer: ✓ False

# • Question 6

0 out of 1 points

The expression (x >= 0 && x <= 100) evaluates to false if either x < 0 or x >= 100.



Answer

Selected Answer: **▼** False Correct Answer: False

#### • Question 7

1 out of 1 points

Suppose P and Q are logical expressions. The logical expression P && Q is true if both P and Q are true.



Answer

Selected Answer: ✓ True Correct Answer: True

## • Question 8

1 out of 1 points

The value of the expression 'a' < 'A' is true.



Answer

Selected Answer: ✓ False Correct Answer: 

✓ False

# • Question 9

1 out of 1 points

The value of the expression  $7 + 8 \le 15$  is true. Answer

Selected Answer: ✓ True Correct Answer: ✓ True

#### • Question 10

1 out of 1 points

In C++, && has a higher precedence than ||. Answer

Selected Answer: ✓ True Correct Answer: **True** 

#### • Question 11

0 out of 1 points

In C++, all relational operators are evaluated before logical operators.

Answer

Selected Answer: **✓** False 

#### • Question 12

1 out of 1 points

The operators ! =and ==have the same order of precedence.

Answer

Selected Answer: ✓ True Correct Answer: **✓** True

# • Question 13

1 out of 1 points

Suppose found = true and num = 6. The value of the expression (!found) | | (num > 6) is false.

Answer

Selected Answer: ✓ True Correct Answer: **True** 

## • Question 14

1 out of 1 points

Suppose x = 10 and y = 20. The value of the expression ( (x >= 10) && (y = 10)<= 20)) is true.



Answer

Selected Answer: ✓ True Correct Answer: <a>True</a>

## • Question 15

1 out of 1 points

The value of the expression



🧸 is true.

Answer

Selected Answer: **✓** False Correct Answer: ✓ False

# • Question 16

1 out of 1 points

The result of a logical expression cannot be assigned to an int variable, but it can be assigned to a bool variable.



Selected Answer: **▼** False Correct Answer: False

# • Question 17

1 out of 1 points

Consider the following statements.

```
int score; string grade;
```

```
if (score \geq 65)
    grade = "pass";
else
    grade = "fail";
```

If score is equal to 75, the value of grade is "pass".

Selected Answer: ✓ True Correct Answer: ✓ True

#### • Question 18

1 out of 1 points

Every if statement must have a corresponding else.

Answer

Selected Answer: ✓ False

Correct Answer: 

✓ False

# • Question 19

1 out of 1 points

The expression in the following if statement evaluates to true only if the value of score is 50.



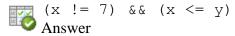
Answer

Selected Answer: **✓** False Correct Answer: ✓ False

#### • Question 20

1 out of 1 points

Suppose x is 5 and y is 7. Choose the value of the following expression:



Selected Answer:

true

Correct Answer:



#### • Question 21

0 out of 1 points

Suppose that x is an int variable. Which of the following expressions always evaluates to true?

Answer



Selected Answer: 🗸



Correct Answer:

$$(x > 0) \mid | (x <= 0)$$

#### • Question 22

1 out of 1 points

Which of the following operators has the highest precedence?

Answer



Selected Answer:



Correct Answer:

# • Question 23

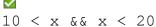
1 out of 1 points

Which of the following expressions correctly determines that x is greater than 10 and less than 20?

Answer



Selected Answer:



Correct Answer:

$$\frac{10}{10}$$
 < x && x < 20

## • Question 24

1 out of 1 points

What is the output of the following C++ code?



else z = y - x;

cout << x << " " << y << " " << z << endl; Answer

Selected Answer: <a></a>

35 45 10

Correct Answer:

35 45 10

# • Question 25

1 out of 1 points

What is the output of the following code?



else

cout << "\*" << endl;

Answer

Selected Answer:

Correct Answer: