# **Chapter Five**

## **MULTIPLE CHOICE**

1. These are operators that add and subtract one from their operands.

a.	plus and minus
b.	++ and
c.	binary and unary
d.	conditional and relational
e.	None of these

## ANS:

2. What is the output of the following code segment?

```
n = 1;
while (n <= 5)
  cout << n << ' ';
  n++;
```

a.	1 2 3 4 5
b.	1 1 1 and on forever
c.	2 3 4 5 6
d.	1 2 3 4
e.	2 3 4 5

## ANS:

3. This operator increments the value of its operand, then uses the value in context.

a.	prefix increment
b.	postfix increment
c.	prefix decrement
d.	postfix decrement
e.	None of these

#### ANS:

4. The while loop has two important parts: an expression that is tested for a true or false value, and:

a.	a statement or block that is repeated as long as the expression is true
b.	a statement or block that is repeated only if the expression is false
c.	one line of code that is repeated once, if the expression is true
d.	a statement or block that is repeated once, if the expression is true

## ANS:

5. The while loop is this type of loop.

a.	post-test
b.	pre-test
c.	infinite
d.	limited
e.	None of these

	<b>N</b>	$\Gamma$	
А	1		

ANS:	
	6. If you place a semicolon after the test expression in a while loop, it is
assun	ned to be a(n):
a.	pre-test loop
b.	post-test loop
c.	null statement
d.	infinite loop
e.	None of these
	Notice of these
ANS:	
	7. The statements in the body of a while loop may never be executed, whereas
the sta	atements in the body of a do-while loop will be executed:
a.	at least once
b.	at least twice
c.	as many times as the user wishes
d.	never
e.	None of these
	Notic of these
ANS:	
	8. A for statement contains three expressions: initialization, test, and
a.	update
b.	reversal
C.	null
d.	validation
e.	None of these
ANS:	
	9. In a for statement, this expression is executed only once.
a.	test
b.	null
c.	initialization
d.	validation
e.	None of these
	·
ANS:	
	10. You may define a in the initialization expression of a for loop.
a.	constant
b.	function
c.	variable
d.	new data type
e.	None of these
	1.0.0 0. 0.00
ANS:	
	11. The do-while loop is a loop that is ideal in situations where you
alway	s want the loop to iterate at least once.
a.	post-test
b.	pre-test
c.	infinite
d.	null-terminated
u.	nuir-terminateu

a. an infi b. a pre- c. a post d. a nest e. None  ANS:  13.  next one. a. break b. termir c. re-iter d. contin e. None  ANS:  14. a. decre b. incren c. modu d. parse e. None  ANS:  2xpression is a. postfix b. prefix c. prelim d. binary	ate
a. an infib. a prec. a post d. a nest e. None  NS:  13. ext one. a. break b. termirc. re-iter d. contine. None  NS:  14. a. decre b. increnc. moduld. parse e. None  NS:  15. xpression is a. postfix b. prefix c. prelim d. binary	nite loop test loop -test loop ed loop of these  This statement may be used to stop a loop's current iteration and begin the ate ate ate ue
a. an infib. a precedure. A post d. a nest e. None  NS:  13. ext one. a. break b. termire. re-iter d. continue. None  NS:  14. a. decree b. incrence. moduld. parse e. None  NS:  15. expression is a. postfib. prefix c. prelimed. binary	nite loop test loop -test loop ed loop of these  This statement may be used to stop a loop's current iteration and begin the ate ate ate ue
a. an infinite a pre- c. a post d. a nest e. None  NS:  13. ext one. a. break b. terminic. re-iter d. continue. None  NS:  14. a. decre b. incrence. modul d. parse e. None  NS:  15. expression is a. postfix b. prefix c. prelimed. binary	nite loop test loop -test loop ed loop of these  This statement may be used to stop a loop's current iteration and begin the ate ate ate ue
b. a pre- c. a post d. a nest e. None  NS:  13. ext one. a. break b. termir c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	test loop -test loop ed loop of these  This statement may be used to stop a loop's current iteration and begin the ate ate ate
a post d. a nest e. None  NS:  13. ext one. a. break b. termir c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	-test loop ed loop of these  This statement may be used to stop a loop's current iteration and begin the ate ate ate ate ue
d. a nest e. None  NS:  13. ext one. a. break b. termin c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	ed loop of these  This statement may be used to stop a loop's current iteration and begin the ate ate ate ue
e. None  NS:  13. ext one. a. break b. termir c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	This statement may be used to stop a loop's current iteration and begin the ate ate ue
NS:  13. ext one. a. break b. termir c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	This statement may be used to stop a loop's current iteration and begin the ate ate ue
13. ext one. a. break b. termir c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	ate ate ue
ext one. a. break b. termir c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	ate ate ue
ext one. a. break b. termir c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	ate ate ue
a. break b. termir c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	ate ue
b. termin c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	ate ue
c. re-iter d. contin e. None  NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	ate ue
d. contine  None  NS:  14.  a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	ue
e. None  NS:  14.  a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	
NS:  14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	of these
14. a. decre b. incren c. modul d. parse e. None  NS:  15.  xpression is a. postfix b. prefix c. prelim d. binary	
NS:  15.  cpression is postfix prefix prelim d. pinary	us
15.  xpression is a. postfix b. prefix c. prelim d. binary	or these
c. prelim	When the increment operator precedes its operand, as in ++num1, the in this mode.
d. binary	inan/
	•
	of these
	oi uicac
NS:	
16.	
hile (x++	Look at the following statement.
/hich operat	•
a. ++	•

b.

<

Neither. The expression is invalid.

This is a control structure that causes a statement or group of statements to repeat.

a. decision statement	
-----------------------	--

b.	constant
c.	loop
d.	cout object
e.	None of these

18. The while loop contains an expression that is tested for a true or false value, and a statement or block that is repeated as long as the expression

a.	is false
b.	is true
c.	does not evaluate to true or false
d.	evaluates to true or false
e.	None of these

#### ANS:

19. Something within a while loop must eventually cause the condition to become false, or a(n) results.

a.	null value
b.	infinite loop
c.	unexpected exit
d.	compiler error
e.	None of these

#### ANS:

20. This is a variable that is regularly incremented or decremented each time a loop iterates.

a.	constant
b.	counter
c.	control statement
d.	null terminator
e.	None of these

#### ANS:

21. This is a special value that marks the end of a list of values.

a.	constant
b.	variable
c.	loop
d.	sentinel
e.	None of these

## ANS:

22. What is the output of the following code segment?

```
n = 1;
for ( ; n <= 5; )
   cout << n << ' ';
   n++;</pre>
```

```
a. 1 2 3 4 5
```

b.	1 1 1 and on forever
c.	2 3 4 5 6
d.	1 2 3 4
e.	2 3 4 5

23. The do-while loop is considered a(n) \_\_\_\_\_\_loop.

	· · · · · · · · · · · · · · · · · · ·
a.	pre-test
b.	post-test
c.	infinite
d.	limited
e.	None of these

## ANS:

24. This loop is a good choice when you know how many times you want the loop to iterate in advance of entering the loop.

	ato in diarantee or onto ing the loop.
a.	do-while
b.	while
c.	for
d.	infinite
e.	None of these

#### ANS:

25. This is a pre-test loop that is ideal in situations where you do not want the loop to iterate if the condition is false from the beginning.

a.	do-while
b.	while
c.	for
d.	infinite
e.	None of these

## ANS:

26. This statement causes a loop to terminate early.

	, ,
a.	stop
b.	break
c.	null
d.	terminate
e.	None of these

## ANS:

27. If you want a user to enter exactly 20 values, which loop would be the best to

use?	
a.	do-while
b.	for
c.	while
d.	infinite
e.	None of these

## ANS:

28. This statement may be used to stop a loop's current iteration and begin the next one.

a.	break
b.	terminate
c.	return
d.	continue
e.	None of these

ANS:

29. What will the following loop display?

```
int x = 0;
while (x < 5)
{
   cout << x << endl;
   x++;
}</pre>
```

a.	0 1 2 3 4 5	c.	01 2 3 4
b.	0 1 2 3 4	d.	The loop will display numbers starting at 0, for infinity.

ANS:

30. What will the following code display?

```
int number = 6;
number++;
cout << number << endl;</pre>
```

a.	6	c.	7
b.	5	d.	0

ANS:

31. What will the following code display?

```
int number = 6;
++number;
cout << number << endl;</pre>
```

a.	6	c.	7
b.	5	d.	0

# 32. What will the following code display?

```
int number = 6;
cout << number++ << endl;</pre>
```

a.	6	c.	7
b.	5	d.	0

#### ANS:

# 33. What will the following code display?

```
int number = 6;
cout << ++number << endl;</pre>
```

a.	6	c.	7
b.	5	d.	0

#### ANS:

# 34. What will the following code display?

```
int number = 6;
int x = 0;
x = number--;
cout << x << endl;</pre>
```

a.	6	c.	7
b.	5	d.	0

#### ANS:

# 35. What will the following code display?

```
int number = 6
int x = 0;
x = --number;
cout << x << endl;</pre>
```

a.	6	c.	7
b.	5	d.	0

#### ANS:

# 36. To allow file access in a program, you must #include this header file.

a.	file
b.	fileaccess
c.	fstream

d.	cfile
ANS:	
11110.	
	37. A file is a small holding section of memory that file-bound
inform	nation is first written to.
a.	name
b.	number
C.	buffer
d.	segment None of these
e.	Notic of these
ANS:	
	This may be used to write information to a file
0	38. This may be used to write information to a file.
a. b.	·
	pen object
d.	output object stream insertion operator
	None of these
e.	INUITE OF ITTESE
ANS:	
	39. To write data to a file, you define an object of this data type.
0	39. To write data to a file, you define an object of this data type.  outputFile
a. b.	ifstream
c.	fstream
d.	ofstream
ANS:	
	40. To read data from a file, you define an object of this data type.
a.	inputFile
b.	ifstream
c.	fstream
d.	ofstream
ANS:	
AINS.	
	41. Assuming outFile is a file stream object and number is a variable, which
staten	ment writes the contents of number to the file associated with outFile?
a.	write(outFile, number);
b.	<pre>outFile &gt;&gt; number;</pre>
c.	<pre>outFile &lt;&lt; number;</pre>
d.	<pre>number &gt;&gt; outFile;</pre>
ANS:	
	42. Assuming dataFile is a file stream object, the statement
data	File.close();
a.	is illegal in C++
	noode a tilonamo argument to executo correctly
b.	needs a filename argument to execute correctly
c.	closes a file

43. A file must be \_\_\_\_\_\_ before data can be written to or read from it.

a.	closed
b.	opened
c.	buffered
d.	initialized
e.	None of these

ANS:

44. What will the following code display?

```
int x = 0;
for (int count = 0; count < 3; count++)
    x += count;
cout << x << endl;</pre>
```

a.	0	c.	6
	1		
	2		
b.	0	d.	3

ANS:

45. How many times will the following loop display "Hello"?

```
for (int i = 0; i < 20; i++)
  cout << "Hello!" << endl;</pre>
```

a.	20	c.	21
b.	19	d.	An infinite number of times

ANS:

46. How many times will the following loop display "Hello"?

```
for (int i = 1; i < 20; i++)
  cout << "Hello!" << endl;</pre>
```

a.	20	c.	21
b.	19	d.	An infinite number of times

ANS:

47. How many times will the following loop display "Hello"?

```
for (int i = 0; i <= 20; i++)
  cout << "Hello!" << endl;</pre>
```

a. 20	c. 21
-------	-------

h	10	Ы	An infinite number of times
υ.	10	u.	7 th mining harriser of times

48. How many times will the following loop display "Hello"?

a.	20	c.	21
b.	19	d.	An infinite number of times

ANS: