### Chapter 2

- 1. In C++, reserved words are the same as predefined identifiers.
  - a. True
  - b. False

ANSWER: False

POINTS: 1
REFERENCES: 36

QUESTION TYPE: True / False

HAS VARIABLES: False

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- 2. The maximum number of significant digits in values of the double type is 15.
  - a. True

b. False

ANSWER: True POINTS: 1
REFERENCES: 41

QUESTION TYPE: True / False

HAS VARIABLES: False

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- 3. The maximum number of significant digits in float values is up to 6 or 7.
  - a. True
  - b. False

ANSWER: True POINTS: 1
REFERENCES: 42

QUESTION TYPE: True / False

HAS VARIABLES: False

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- 4. An operator that has only one operand is called a unique operator.
  - a. True
  - b. False

ANSWER: False
POINTS: 1
REFERENCES: 45

QUESTION TYPE: True / False

HAS VARIABLES: False

### Chapter 2

5. If a C++ arithmetic expression has no parentheses, operators are evaluated from left to right.

a. True

b. False

ANSWER: True POINTS: 1
REFERENCES: 46

QUESTION TYPE: True / False

HAS VARIABLES: False

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- 6. A mixed arithmetic expression contains all operands of the same type.
  - a. True
  - b. False

ANSWER: False
POINTS: 1
REFERENCES: 48

QUESTION TYPE: True / False

HAS VARIABLES: False

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- 7. Suppose a = 5. After the execution of the statement ++a; the value of a is 6.
  - a. True
  - b. False

ANSWER: True POINTS: 1
REFERENCES: 70

QUESTION TYPE: True / False

HAS VARIABLES: False

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- 8. The escape sequence \r moves the insertion point to the beginning of the next line.
  - a. True
  - b. False

ANSWER: False
POINTS: 1
REFERENCES: 7

QUESTION TYPE: True / False

HAS VARIABLES: False

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- 9. A comma is also called a statement terminator.
  - a. True

b. False

ANSWER: False
POINTS: 1
REFERENCES: 88

QUESTION TYPE: True / False

HAS VARIABLES: False

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- 10. Suppose we declare a variable sum as an int. The statement "sum += 7;" is equivalent to the statement "sum =sum + 7;".
  - a. True
  - b. False

ANSWER: True POINTS: 1
REFERENCES: 93

QUESTION TYPE: True / False

HAS VARIABLES: False

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11. The \_\_\_\_ rules of a programming language tell you which statements are legal, or accepted, by the programming language.

a. semantic b. logical

c. syntax d. grammatical

ANSWER: c
POINTS: 1
REFERENCES: 34

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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12. Which of the following is a reserved word in C++?

a. char b. Char

c. CHAR d. character

ANSWER: a POINTS: 1 REFERENCES: 35

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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13. Which of the following is a legal identifier?

a. program!b. program\_1c. 1programd. program 1

ANSWER: b
POINTS: 1
REFERENCES: 36

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

# Chapter 2

14. \_\_\_\_ is a valid int value.

a. 46, 259 b. 46259

c. 462.59 d. -32.00

ANSWER: b
POINTS: 1
REFERENCES: 39

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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15. \_\_\_\_ is a valid char value.

a. "-129"

b. 'A'

c. "A"

d. 129

ANSWER: b
POINTS: 1
REFERENCES: 40

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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16. An example of a floating point data type is \_\_\_\_\_.

a.int

b. char

 ${
m c.}$  double

d. short

ANSWER: c
POINTS: 1
REFERENCES: 41

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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17. The memory allocated for a float value is \_\_\_\_ bytes.

a. two b. four

c. eight d. sixteen

ANSWER: b
POINTS: 1
REFERENCES: 41

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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18. The value of the expression 17 % 7 is \_\_\_\_\_.

**a.** 1 **b.** 2

c. 3 d. 4

ANSWER: c
POINTS: 1
REFERENCES: 43

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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19. The value of the expression 33/10, assuming both values are integral data types, is \_\_\_\_\_.

**a.** 0 **.** 3 **b.** 3

c. 3.0 d. 3.3

ANSWER: b
POINTS: 1

REFERENCES: 43-44

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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20. The expression static cast<int>(9.9) evaluates to \_\_\_\_\_.

a. 9 b. 10

c. 9.9 d. 9.0

ANSWER: a POINTS: 1 REFERENCES: 51

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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21. The expression static\_cast<int>(6.9) + static\_cast<int>(7.9) evaluates to \_\_\_\_\_.

a. 13b. 14c. 14.8d. 15

ANSWER: a

POINTS: 1
REFERENCES: 51

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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22. The length of the string "computer science" is \_\_\_\_.

a. 14 b. 15

c. 16 d. 18

ANSWER: c

POINTS: 1
REFERENCES: 53

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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23. In a C++ program, one and two are double variables and input values are 10.5 and 30.6. After the statement cin >> one >> two; executes, \_\_\_\_.

```
a. one = 10.5, two = 10.5
```

$$b.one = 10.5, two = 30.6$$

c. one = 
$$30.6$$
, two =  $30.6$  d. one =  $11$ , two =  $31$ 

ANSWER: b
POINTS: 1
REFERENCES: 65

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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24. Suppose that count is an int variable and count = 1. After the statement count++; executes, the value of count is \_\_\_\_\_.

a. 1b. 2c. 3d. 4

ANSWER: b
POINTS: 1
REFERENCES: 69-70

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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25. Suppose that alpha and beta are int variables. The statement alpha = --beta; is equivalent to the statement(s) \_\_\_\_.

```
a. alpha = 1 - beta;
b. alpha = beta - 1;
c. beta = beta - 1;
alpha = beta;
d. alpha = beta;
beta = beta - 1;
```

ANSWER: c
POINTS: 1

REFERENCES: 70-71

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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26. Suppose that alpha and beta are int variables. The statement alpha = beta--; is equivalent to the statement(s) \_\_\_\_.

```
a. alpha = 1 - beta;
b. alpha = beta - 1;
c. beta = beta - 1;
alpha = beta;
d. alpha = beta;
beta = beta - 1;
```

ANSWER: d
POINTS: 1
REFERENCES: 70-71

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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27. Suppose that alpha and beta are int variables. The statement alpha = beta++; is equivalent to the statement(s) \_\_\_\_.

```
a. alpha = 1 + beta;
b. alpha = alpha + beta;
c. alpha = beta;
beta = beta + 1;
d. beta = beta + 1;
alpha = beta;
```

ANSWER: c
POINTS: 1

REFERENCES: 70-71

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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28. Suppose that alpha and beta are int variables. The statement alpha = ++beta; is equivalent to the statement(s) \_\_\_\_.

```
a. beta = beta + 1;
  alpha = beta;
b. alpha = beta;
  beta = beta + 1;
c. alpha = alpha + beta;
d. alpha = beta + 1;
```

ANSWER: a POINTS: 1 REFERENCES: 70-71

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

# Chapter 2

## 29. Choose the output of the following C++ statement:

cout << "Sunny " << '\n' << "Day " << endl;
a. Sunny \nDay</pre>

- b. Sunny \nDay endl
- c. Sunny Day
- d. Sunny \n
   Day

ANSWER: c
POINTS: 1
REFERENCES: 72

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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30. Which of the following is the newline character?

a. \rb. \nc. \ld. \b

ANSWER: b
POINTS: 1
REFERENCES: 72

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

### Chapter 2

31. Consider the following code.

```
// Insertion Point 1

using namespace std;
const float PI = 3.14;

int main()
{
//Insertion Point 2

float r = 2.0;
float area;
area = PI * r * r;

cout << "Area = " << area <<endl;
return 0;
}
// Insertion Point 3</pre>
```

In this code, where does the include statement belong?

- a. Insertion Point 1 b. Insertion Point 2
- c. Insertion Point 3 d. Anywhere in the program

ANSWER: a
POINTS: 1
REFERENCES: 82

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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- 32. \_\_\_\_ are executable statements that inform the user what to do.
  - a. Variables
- b. Prompt lines
- c. Named constants
- d. Expressions

ANSWER: b
POINTS: 1
REFERENCES: 89

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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33. The declaration int a, b, c; is equivalent to which of the following?

a.inta , b, c; b.int a,b,c;
c.int abc; d.int a b c;

ANSWER: b
POINTS: 1
REFERENCES: 90

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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34. Suppose that alpha and beta are int variables and alpha = 5 and beta = 10. After the statement alpha

ANSWER: c
POINTS: 1
REFERENCES: 92

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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35. Suppose that sum and num are int variables and sum = 5 and num = 10. After the statement sum += num executes, \_\_\_\_.

a. sum = 0 b. sum = 5c. sum = 10 d. sum = 15

ANSWER: d
POINTS: 1
REFERENCES: 93

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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<b>Chapter 2</b>			
36	is the process of pla	unning and creating a program.	
ANSWER:	Programming programming		
POINTS:	1		
REFERENCES:	28		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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37. A(n)	is a memory lo	ocation whose contents can be char	nged.
ANSWER:	variable		
POINTS:	1		
REFERENCES:	33		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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	is a collection	of statements, and when it is activa	ated, or executed, it accomplishes
something.  ANSWER:			
ANSWEK.	subprogram sub program		
	sub-program		
	function		
	module		
POINTS:	1		
REFERENCES:	33		
QUESTION TYPE:	•		
HAS VARIABLES:	False		
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39	functions are those	that have already been written and	are provided as part of the system.
ANSWER:	Predefined		
	predefined Standard		
	Standard standard		
POINTS:	1		
REFERENCES:	33-34		
QUESTION TYPE:			
HAS VARIABLES:	False		
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40	rules determine	e the meaning of instructions.	
ANSWER:	Semantic semantic		
POINTS:	1		
REFERENCES:	34		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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		identify the authors of the program, give th	
~	-	program, and explain the meaning of key st	atements in a program.
ANSWER:	Comments		
POINTS:	1		
REFERENCES:	34		
QUESTION TYPE:			
HAS VARIABLES:	False		
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42. The smallest ind	ividual unit of a prograi	m written in any language is called a(n)	
ANSWER:	token	, , , , , , , , , , , , , , , , , , , ,	
POINTS:	1		
REFERENCES:	35		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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43. In a C++ progra	m,	are used to separate special symbols, re	eserved words, and identifiers.
ANSWER:	whitespaces whitespace white spaces white space		······································
POINTS:	1		
REFERENCES:	37		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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44. The	type is C++ 's	s method for allowing programmers to creat	te their own simple data types
ANSWER:	enumeration		
POINTS:	1		
REFERENCES:	38		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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45. The memory spa	ace for a(n)	data value is 64 bytes.	
ANSWER:	long long		
POINTS:	1		
REFERENCES:	39		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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46. The maximum n	number of significant digits	is called the	
ANSWER:	precision		
POINTS:	1		
REFERENCES:	42		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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47. When a value of coercion is said to h		ally changed to another data type, a(n)	type
ANSWER:	implicit		
POINTS:	1		
REFERENCES:	50		
$QUESTION\ TYPE:$	Completion		
HAS VARIABLES:	False		
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48. A(n)	is a sequen	ce of zero or more characters.	
ANSWER:	string		
POINTS:	1		
REFERENCES:	53		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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49. In C++, you can is fixed throughout p		to instruct a program to mark	those memory locations in which data
ANSWER:	named constant constant		
POINTS:	1		
REFERENCES:	54		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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50. A data type is ca a time.	illed	if the variable or named constant	of that type can store only one value at
ANSWER:	simple		
POINTS:	1		
REFERENCES:	57		
QUESTION TYPE:	Completion		
HAS VARIABLES:	False		
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