Name:_____ Class:_____ Date:_____

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
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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

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13. Which of the following is a legal identifier?
    a. `program!`   b. `program_1`
    c. `1program`   d. `program 1`

ANSWER: b
POINTS: 1
REFERENCES: 36

14. ____ is a valid `int` value.
    a. `46,259`   b. `46259`
    c. `462.59`   d. `-32.00`

ANSWER: b
POINTS: 1
REFERENCES: 39

15. ____ is a valid `char` value.
    a. `"-129"`   b. `'A'`
    c. `"A"`   d. `129`

ANSWER: b
POINTS: 1
REFERENCES: 40

16. An example of a floating point data type is ____.
    a. `int`   b. `char`
    c. `double`   d. `short`

ANSWER: c
POINTS: 1

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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. `13`   b. `14`
     c. `14.8`   d. `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 ____.

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a. 1   b. 2
c. 3   d. 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) _____.

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   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
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29. Choose the output of the following C++ statement:
`cout << "Sunny " << '\n' << "Day " << endl;`
   a. `Sunny \nDay`
   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. \r   b. \n

    c. \l   d. \b

ANSWER:	b
POINTS:	1
REFERENCES:	72
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
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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
```

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 *= beta;` executes, _____.

    a. `alpha = 5`   b. `alpha = 10`

    c. `alpha = 50`   d. `alpha = 50.0`

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 = 5`

    c. `sum = 10`   d. `sum = 15`

ANSWER: d

POINTS: 1

REFERENCES: 93

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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36. _____ is the process of planning 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 location whose contents can be changed.

ANSWER:	variable
POINTS:	1
REFERENCES:	33
QUESTION TYPE:	Completion
HAS VARIABLES:	False
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38. A(n) _____ is a collection of statements, and when it is activated, or executed, it accomplishes something.

ANSWER:	subprogram
	sub program
	sub-program
	function
	module
POINTS:	1
REFERENCES:	33
QUESTION TYPE:	Completion
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
POINTS:	1
REFERENCES:	33-34
QUESTION TYPE:	Completion
HAS VARIABLES:	False
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40. _____ rules determine the meaning of instructions.

ANSWER:	Semantic
	semantic
POINTS:	1
REFERENCES:	34
QUESTION TYPE:	Completion
HAS VARIABLES:	False
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41. _____ can be used to identify the authors of the program, give the date when the program is written or modified, give a brief explanation of the program, and explain the meaning of key statements in a program.

ANSWER:	Comments
	comments
POINTS:	1
REFERENCES:	34
QUESTION TYPE:	Completion
HAS VARIABLES:	False
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42. The smallest individual unit of a program 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++ program, _____ are used to separate special symbols, reserved 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 method for allowing programmers to create their own simple data types.

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ANSWER: enumeration
POINTS: 1
REFERENCES: 38
QUESTION TYPE: Completion
HAS VARIABLES: False
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45. The memory space 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 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 one data type is automatically changed to another data type, a(n) _____ type coercion is said to have occurred.
ANSWER: implicit
POINTS: 1
REFERENCES: 50
QUESTION TYPE: Completion
HAS VARIABLES: False
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48. A(n) _____ is a sequence 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 use a(n) _____ to instruct a program to mark those memory locations in which data is fixed throughout program execution.

ANSWER:	named constant
	constant
POINTS:	1
REFERENCES:	54
QUESTION TYPE:	Completion
HAS VARIABLES:	False
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50. A data type is called _____ if the variable or named constant of that type can store only one value at a time.

ANSWER:	simple
POINTS:	1
REFERENCES:	57
QUESTION TYPE:	Completion
HAS VARIABLES:	False
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