

REF: 34

- c. CHAR
- d. character

REF: 36

- c. 1program
d. program 1

REF: 36

- c. 462.59
d. -32.00

REF: 39-40

- c. 128
d. 129

REF: 40

- c. double
d. short

REF: 41

- c. eight
d. sixteen

REF: 42

- c. 3.0
d. 3.3

REF: 43-44

- c. 3
d. 4

REF: 43-44

- c. 9.9
d. 9.0

REF: 51

11. The expression `static_cast<int>(6.9) + static_cast<int>(7.9)` evaluates to ____.
- a. 13
 - b. 14
 - c. 14.8
 - d. 15

ANS: A PTS: 1 REF: 51

12. The length of the string "computer science" is ____.
- a. 14
 - b. 15
 - c. 16
 - d. 18

ANS: C PTS: 1 REF: 54

13. 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

ANS: B PTS: 1 REF: 64

14. Suppose that count is an int variable and `count = 1`. After the statement `count++;` executes, the value of count is ____.
- a. 1
 - b. 2
 - c. 3
 - d. 4

ANS: B PTS: 1 REF: 70

15. 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;`

ANS: C PTS: 1 REF: 70-71

16. 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;`

ANS: D PTS: 1 REF: 70-71

17. 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;

ANS: C PTS: 1 REF: 70-71

18. 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;`

ANS: A PTS: 1 REF: 70-71

19. 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

ANS: C                      PTS: 1                      REF: 73

20. Which of the following is the newline character?
- a. `\r`
  - b. `\n`
  - c. `\l`
  - d. `\b`

ANS: B                      PTS: 1                      REF: 73

21. 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

ANS: A                      PTS: 1                      REF: 80

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

ANS: B                      PTS: 1                      REF: 91

23. 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;`

ANS: B                      PTS: 1                      REF: 92

24. 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`

ANS: C                      PTS: 1                      REF: 94

25. 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`

ANS: D                      PTS: 1                      REF: 95

## COMPLETION

1. \_\_\_\_\_ is the process of planning and creating a program.

ANS:  
Programming  
programming

PTS: 1                      REF: 28

2. A(n) \_\_\_\_\_ is a memory location whose contents can be changed.

ANS: variable

PTS: 1                      REF: 33

3. A(n) \_\_\_\_\_ is a collection of statements, and when it is activated, or executed, it accomplishes something.

ANS:  
subprogram  
sub program  
sub-program  
function  
modlue

PTS: 1 REF: 34

4. \_\_\_\_\_ functions are those that have already been written and are provided as part of the system.

ANS:  
Predefined  
predefined  
Standard  
standard

PTS: 1 REF: 34

5. \_\_\_\_\_ rules determine the meaning of instructions.

ANS:  
Semantic  
semantic

PTS: 1 REF: 34

6. \_\_\_\_\_ 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.

ANS:  
Comments  
comments

PTS: 1 REF: 34

7. The smallest individual unit of a program written in any language is called a(n) \_\_\_\_\_.

ANS: token

PTS: 1 REF: 35

8. In a C++ program, \_\_\_\_\_ are used to separate special symbols, reserved words, and identifiers.

ANS:  
whitespaces  
whitespace  
white spaces  
white space

PTS: 1 REF: 37

9. The \_\_\_\_\_ type is C++ 's method for allowing programmers to create their own simple data types.

ANS: enumeration

PTS: 1 REF: 38

10. The memory space for a(n) \_\_\_\_\_ data value is 64 bytes.

ANS: long long

PTS: 1 REF: 39

11. The maximum number of significant digits is called the \_\_\_\_\_.

ANS: precision

PTS: 1 REF: 42

12. When a value of one data type is automatically changed to another data type, a(n) \_\_\_\_\_ type coercion is said to have occurred.

ANS: implicit

PTS: 1 REF: 51

13. A(n) \_\_\_\_\_ is a sequence of zero or more characters.

ANS: string

PTS: 1 REF: 53

14. In C++, you can use a(n) \_\_\_\_\_ to instruct a program to mark those memory locations in which data is fixed throughout program execution.

ANS:  
named constant  
constant

PTS: 1 REF: 55

15. A data type is called \_\_\_\_\_ if the variable or named constant of that type can store only one value at a time.

ANS: simple

PTS: 1 REF: 57