

TRUE/FALSE

	,	1		
	ANS: F	PTS: 1	REF: 36	
2.	The maximum numb	er of significant digits	in values of the double type is 15.	
	ANS: T	PTS: 1	REF: 42	
3.	The maximum numb	er of significant digits	in float values is up to 6 or 7.	
	ANS: T	PTS: 1	REF: 42	
4.	An operator that has	only one operand is c	alled a unique operator.	
	ANS: F	PTS: 1	REF: 45	
5.	If a C++ arithmetic e	expression has no pare	ntheses, operators are evaluated from left to right.	
	ANS: T	PTS: 1	REF: 46	

1. In C++, reserved words are the same as predefined identifiers.

6. A mixed arithmetic expression contains all operands of the same type.

ANS: F PTS: 1 REF: 49

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

ANS: T PTS: 1 REF: 70

8. The escape sequence $\r moves$ the insertion point to the beginning of the next line.

ANS: F PTS: 1 REF: 78

- 9. A comma is also called a statement terminator.
 - ANS: F PTS: 1 REF: 90
- 10. Suppose that sum is an int variable. The statement sum += 7; is equivalent to the statement sum
 = sum + 7;

ANS: T PTS: 1 REF: 95

MULTIPLE CHOICE

- 1. The _____ rules of a programming language tell you which statements are legal, or accepted by the programming language.
 - a. semanticb. logicalc. syntaxd. grammatical

	ANS: C	PTS:	1	REF:	34
2.	Which of the following a. char b. Char	ng is a 1	reserved word i	c.	CHAR
				d.	
	ANS: A	PTS:	1	REF:	36
3.	Which of the following	ng is a l	legal identifier?		
	a. program!b. program_1				lprogram program 1
	ANS: B	PTS:	1	REF:	36
4.	is a valid int	value.			
	a. 46,259				462.59
	b. 46259			d.	-32.00
	ANS: B	PTS:	1	REF:	39-40
5.	is a valid cha:	r value	2.		
	a129				128
	b. `A'				129
	ANS: B	PTS:	1	REF:	40
6.	An example of a floa	ting poi	int data type is	·	
	a. int b. char			с. d.	double short
		DTC.	1		
	ANS: C	PTS:	1	KEF:	41
7.	The memory allocate	d for a	float value is	-	
	a. two b. four				eight sixteen
		PTS:	1	REF:	
8.	The value of the expr a. 0.3	ression	33/10, assur	•	oth values are integral data types, is 3.0
	b. 3				3.3
	ANS: B	PTS:	1	REF:	43-44
9.	The value of the expr	ression	17 % 7 is		
	a. 1			c.	
	b. 2			d.	4
	ANS: C	PTS:	1	REF:	43-44
10.	The expression stat	cic_ca	ast <int>(9.</int>		
	a. 9b. 10				9.9
					9.0
	ANS: A	PTS:	1	REF:	51

11. The expression static cast<int>(6.9) + static cast<int>(7.9) evaluates to _____. a. 13 c. 14.8 b. 14 d. 15 ANS: A REF: 51 PTS: 1 12. The length of the string "computer science" is _ ____. a. 14 c. 16 b. 15 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 = 10.5c. one = 30.6, two = 30.6b. one = 10.5, two = 30.6d. one = 11, two = 31 REF: 64 ANS: B PTS: 1 14. Suppose that count is an int variable and count = 1. After the statement count++; executes, the value of count is . a. 1 c. 3 **b**. 2 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; REF: 70-71 ANS: D PTS: 1 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;</pre>
    a. Sunny \nDay
    b. Sunny \nDay endl
    c. Sunny
       Day
    d. Sunny \n
       Day
                      PTS: 1
    ANS: C
                                       REF: 73
20. Which of the following is the newline character?
                                          c. \label{eq:classical}
    a. \r
    b. ∖n
                                          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;</pre>
         return 0;
     }
    // Insertion Point 3
    In this code, where does the include statement belong?
    a. Insertion Point 1
                                          c. Insertion Point 3
    b. Insertion Point 2
                                          d. Anywhere in the program
```

	ANS: A	PTS:	1	REF:	80	
22.	are executablea. Variablesb. Prompt lines	stateme	nts that inform	c.	r what to do. Named constants Expressions	
	ANS: B	PTS:	1	REF:	91	
23.	The declaration int a. inta , b, c b. int a,b,c;		, c; is equiv	с.	which of the following? int abc; int a b c;	
	ANS: B	PTS:	1	REF:	92	
24.	Suppose that alpha statement alpha * a. alpha = 5 b. alpha = 10 ANS: C	= bet	a; executes, _	 c. d.	<pre>bles and alpha = 5 and beta = 10. After the alpha = 50 alpha = 50.0 94</pre>	
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				sum = 10 sum = 15	
	ANS: D	PTS:	1	REF:	95	
СОМ	PLETION					
1.		is	the process of p	olanning	g and creating a program.	
	ANS: Programming programming					
	PTS: 1	REF:	28			
2.	A(n)		is a memory	locatio	n whose contents can be changed.	
	ANS: variable					
	PTS: 1	REF:	33			
3.	A(n)accomplishes someth	ning.	is a collectio	on of sta	tements, and when it is activated, or executed, it	
	ANS: subprogram sub program sub-program function					

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					
	ANS:						
	Comments						
	comments						
	PTS: 1	REF: 34					
7.	The smallest individu	ual 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					
0.	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					
2.	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