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Chapter 2: Basic Elements of C++

TF

RUE/FALSE	RUE/FALSE					
1. In C++, reserved words are the same as predefined identifiers.						
ANS: F	PTS:	1	REF:	36		
2. The maximum num	mber of sig	nificant digits	in value	es of the double type is 15.		
ANS: T	PTS:	1	REF:	42		
3. The maximum num	mber of sig	nificant digits	in floa	at values is up to 6 or 7.		
ANS: T	PTS:	1	REF:	42		
4. An operator that has only one operand is called a unique operator.						
ANS: F	PTS:	1	REF:	45		
5. If a C++ arithmetic expression has no parentheses, operators are evaluated from left to right.						
ANS: T	PTS:	1	REF:	46		
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 mov	es the insertio	n point	to the beginning of the next line.
	ANS: F	PTS:	1	REF:	78
9.	A comma is also calle	ed a state	ement termina	tor.	
	ANS: F	PTS:	1	REF:	90
10.	Suppose that sum is a = sum + 7;	an int v	variable. The s	tatemen	t sum += 7; is equivalent to the statement sum
	ANS: T	PTS:	l	REF:	95
MULTIPLE CHOICE					
1.		•	ing language	tell you	which statements are legal, or accepted by the
	programming language	ge.			
	a. semantic				syntax
	b. logical			d.	grammatical

	ANS: C	PTS:	1	REF: 34
2. `	Which of the follows a. char b. Char	owing is a res	served w	ord in C++? c. CHAR d. character
3.	ANS: A Which of the foll	PTS:		REF: 36
	a. program!b. program_			c. 1programd. program 1
	ANS: B	PTS:	1	REF: 36
4.	is a valid a. 46,259 b. 46259	int value.		c. 462.59 d32.00
	ANS: B	PTS:	1	REF: 39-40
5.	is a valid a129 b. 'A'	char value.		c. 128 d. 129
	ANS: B	PTS:	1	REF: 40
6.	An example of a a. int b. char	floating poir	nt data ty	pe is c. double d. short
	ANS: C	PTS:	1	REF: 41
7.	The memory allo a. two b. four	ocated for a fl	oat valu	e is bytes. c. eight d. sixteen
8.	ANS: B The value of the a. 0.3 b. 3			REF: 42 assuming both values are integral data types, is c. 3.0 d. 3.3
	ANS: B	PTS:	1	REF: 43-44
9.	The value of the a. 1 b. 2	expression 1	7 % 7:	is c. 3 d. 4
	ANS: C	PTS:	1	REF: 43-44
10.	The expression s a. 9 b. 10	static_cas	st <int< td=""><td>> (9.9) evaluates to c. 9.9 d. 9.0</td></int<>	> (9.9) evaluates to c. 9.9 d. 9.0
	ANS: A	PTS:	1	REF: 51

```
11. The expression static cast<int>(6.9) + static cast<int>(7.9) evaluates to _____.
                                          c. 14.8
        13
   b.
        14
                                          d. 15
    ANS: A
                      PTS: 1
                                       REF: 51
12. The length of the string "computer science" is ___
    a.
                                          c. 16
        15
    b.
                                          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,
                                          c. one = 30.6, two = 30.6
    a. one = 10.5, two = 10.5
                                          d. one = 11, two = 31
   b. one = 10.5, two = 30.6
    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 .
        1
                                              3
    a.
                                          c.
        2
    b.
                                          d.
                                              4
                      PTS: 1
    ANS: B
                                       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
                                REF: 70-71
                PTS: 1
```

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; PTS: 1 REF: 70-71 ANS: A 19. Choose the output of the following C++ statement: cout << "Sunny " << '\n' << "Day " << endl;

```
a. Sunny \nDay
b. Sunny \nDay endl
c. Sunn
   Day
d. Sunny
   \n Day
```

ANS: C PTS: 1 REF: 73

20. Which of the following is the newline character?

```
c. \1
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.	a. Variables b. Prompt lines	tatement	ts that inform t	ne user what to do. c. Named constants d. Expressions
	ANS: B	PTS:	1	REF: 91
23.	The declaration int a. inta , b, c; b. int a,b,c;		c; is equival	<pre>ent to which of the following? c. int abc; d. int a b c;</pre>
	ANS: B	PTS:	1	REF: 92
24.	Suppose that alpha statement alpha *= a. alpha = 5 b. alpha = 10			ariables and alpha = 5 and beta = 10. After the c. alpha = 50 d. alpha = 50.0
	ANS: C	PTS:	1	REF: 94
25.	Suppose that sum ar sum += num exect a. sum = 0			bles and sum = 5 and num = 10. After the statement
	b. sum = 5			d. sum = 15
	ANS: D	PTS:	1	REF: 95
COM	PLETION			
1.		is th	e process of pla	anning and creating a program.
	ANS: Programming programming			
	PTS: 1	REF: 2	28	
2.	A(n)		_ is a memory l	ocation whose contents can be
	changed. ANS: varial	ole		
	PTS: 1	REF: 3	33	
3.	A(n)it accomplishes some	thing.	is a collection	of statements, and when it is activated, or executed,
	ANS: subprogram sub program sub-program function modlue			

	PTS: 1	REF: 34
4.	of the system.	functions are those that have already been written and are provided as part
	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
	of key statements in	or modified, give a brief explanation of the program, and explain the meaning a program.
	ANS: Comments comments	
	PTS: 1	REF: 34
7.	The smallest individ	dual unit of a program written in any language is called a(n)
	ANS: token	
	PTS: 1	REF: 35
8.	In a C++ program, and identifiers.	are used to separate special symbols, reserved words,
	ANS: whitespaces white spaces white space	
	PTS: 1	REF: 37
9.	Theown simple data typ	type is C++ 's method for allowing programmers to create their pes.
	ANS: enumeration	

	PTS: 1	REF: 38
10.	The memory space for	data value is 64 bytes.
	ANS: long long	
	PTS: 1	REF: 39
11.	The maximum numb	er of significant digits is called the
		ANS: precision
	PTS: 1	REF: 42
12.		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: stri	ng
	PTS: 1	REF: 53
14.	In C++, you can use memory locations in	a(n) to instruct a program to mark those which data is fixed throughout program execution.
	ANS: named constant constant	
	PTS: 1	REF: 55
15.	A data type is called store only one value	
	ANS: simple	
	PTS: 1	REF: 57