Starting Out With C++ From Control Structures Through Objects 7th Edition Tony Gaddis Test Bank

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Chapter Three

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1.	The causes a program to wait until information is typed at the keyboard and the Enter key is pressed. a. Output stream b. cin object c. cout object d. Preprocessor e. None of the above ANS: B
2.	The operator always follows the cin object, and the operator follows the cout object. a. binary, unary b. conditional, binary c. >>, << d. <<, >> e. None of the above ANS: C
3.	In any program that uses the cin object, you must include the a. compiler b. iostream header file c. linker d. >> and << operators e. None of the above ANS: B
4.	reads a line of input, including leading and embedded spaces, and stores it in a string object. a. cin.get b. getline c. cin.getline d. get e. None of these ANS: B
5.	When this operator is used with string operands it concatenates them, or joins them together. a. $\&$ b. $*$ c. $%$ d. + e. None of the above
6.	What is the value stored at x, given the statements:

```
int x;
          x = 3 / static cast < int > (4.5 + 6.4);
   a. .3
   b. 0
   c. .275229
   d. 3.3
   e. None of these
   ANS: B
7. This function tells the cin object to skip one or more characters in the keyboard buffer.
   a. cin.ignore
   b. cin.jump
   c. cin.hop
   d. cin.skip;
   e. None of the above
   ANS: A
8. The function, pow(x, 5.0), requires this header file.
   a. cstdlib
   b. cmath
   c. cstring
   d. iostream
   e. iomanip
   ANS: B
9. You want the user to enter the length, width, and height from the keyboard. Which
   cin statement is correctly written?
   a. cin << length, width, height;
   b. cin.get(length, width, height);
   c. cin >> length >> width >> height;
   d. cin >> length, width, height;
   e. cin << length; width; height;</pre>
   ANS: B
10. You can use these to override the rules of operator precedence in a mathematical
   expression.
   a. [Brackets]
   b. (Parentheses)
   c. {Braces}
   d. The escape character \
   e. None of these
   ANS: B
```

11. In the following C++ statement, what will be executed first according to the order of precedence?

```
result = 6 - 3 * 2 + 7 - 10 / 2;
    a. 6 - 3
    b. 3 * 2
    c. 2 + 7
    d. 7 - 10
    e. 10 / 2
    ANS: B
12. When the final value of an expression is assigned to a variable, it will be converted to:
    a. The smallest C++ data type
    b. The largest C++ data type
    c. The data type of the variable
    d. The data type of the expression
    e. None of the above
    ANS: C
13. When a variable is assigned a number that is too large for its data type, it:
    a. underflows
    b. overflows
    c. reverses polarity
    d. exceeds expectations
    e. None of the above
    ANS: B
14. This manipulator is used to establish a field width for the value immediately following it.
    a. field width
    b. set field
    c. setw
    d. iomanip
    e. None of the above
    ANS: C
15. This manipulator causes the field to be left-justified with padding spaces printed to the right.
    a. left justify
    b. right
    c. left
    d. left pad
    e. None of these
    ANS: C
16. This statement will pause the screen, until the [Enter] key is pressed.
    a. cin;
    b. cin.getline();
    c. cin.get();
    d. cin.ignore();
    e. cin.input();
    ANS: C
```

17. To use the rand () function, you must #include this header file in your program.

	 a. iostream b. iomanip c. iorand d. cstdlib e. None of these ANS: D				
18.	Assume that x is an int variable. What value is assigned to x after the following assignment statement is executed?				
	x = -3 + 4 % 6 / 5;				
	 a. 0 b. 1 c. 2 d3 e. None of these 				
	ANS: D				
19.	Which statement will read an entire line of input into the following string object?				
	string address;				
	<pre>a. cin << address; b. cin address; c. getline(cin, address); d. cin.get(address); e. None of the above</pre>				
	ANS: C				
20.	Associativity is either right to left or a. Top to bottom b. Front to back c. Left to right d. Undeterminable e. None of the above				
	ANS: C				
21.	When converting some algebraic expressions to C++, you may need to insert that do not appear in the algebraic expression. a. Parentheses b. Exponents c. Calculations				

- d. Coercions
- e. None of the above

ANS: A

22. Which is true about the following statement?

```
cout << setw(4) << num4 << " ";
```

- a. It allows four spaces for the value in the variable num4.
- b. It outputs "setw(4)" before the value in the variable num4.
- c. It should use setw(10) to output the value in the variable num10.
- d. It inputs up to four characters stored in the variable num4.
- e. None of these

ANS: A

- 23. The total number of digits that appear before and after the decimal point is sometimes referred to as:
 - a. floating points
 - b. significant digits
 - c. precision
 - d. b and c
 - e. None of these

ANS: D

- 24. This stream manipulator forces cout to print the digits in fixed-point notation.
 - a. setprecision(2)
 - b. setw(2)
 - c. fixed
 - d. setfixed(2)
 - e. None of these

ANS: C

- 25. When using the sqrt function you must include this header file.
 - a. cstdlib
 - b. cmath
 - c. cstring
 - d. iostream
 - e. iomanip

ANS: B

26. The statement

will read up to this many characters into ${\tt str.}$

- a. Nine
- b. Ten
- c. Eleven
- d. Eight
- e. None of these

ANS: A

27. What will the value of result be after the following statement executes?

```
result = 6 - 3 * 2 + 7 - 10 / 2;
```

a. 8 b. 6 c. 1.5 d. 2

ANS: D

28. What will the value of x be after the following statements execute?

a. 13

c. 0

b. 18

d. unknown

ANS: A

29. What is the value of average after the following code executes?

a. 2.0 b. 4.0 c. 1.5

d. 6.0

ANS: B

30. Which statement is equivalent to the following?

number
$$+= 1;$$

a. number = number + 1; c. number = 1;

b. number + 1;

d. None of these

ANS: A

31. Which statement is equivalent to the following?

$$x = x * 2;$$

a. x * 2;

c. x = x * x;

b. x *= 2;

d. None of these

ANS: B

32. What is the value of number after the following statements execute?

```
int number = 10;
number += 5;
number -= 2;
number *= 3;
```

a. 3

c. 15

b. 30 d. 2

ANS: C

33. Which line in the following program will cause a compiler error?

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6
     const int MY VAL;
7
     MY VAL = 77;
8
     cout << MY VAL << endl;</pre>
9
      return 0;
10 }
a. 6
                                  c. 9
b. 8
                                  d. 7
```

ANS: A

34. Which line in the following program will cause a compiler error?

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6
     const int MY VAL = 77;
7
      MY VAL = 99;
8
     cout << MY VAL << endl;</pre>
9
      return 0;
10 }
a. 6
                                  c. 9
b. 8
                                  d. 7
ANS: D
```

TRUE/FALSE

1. When the fixed manipulator is used, the value specified by the setprecision manipulator will be the number of digits to appear after the decimal point.

ANS: T

2. The only difference between the get function and the >> operator is that get reads the first character typed, even if it is a space, tab, or the [Enter] key.

ANS: T

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3. The cin << statement will stop reading input when it encounters a newline character.

ANS: T

4. If you want to know the length of the string that is stored in a string object, you can call the object's size member function.

ANS: F

5. Arithmetic operators that share the same precedence have right to left associativity.

ANS: F

6. When C++ is working with an operator, it strives to convert the operands to the same type.

ANS: T

7. When a program uses the setw manipulator, the iosetwidth header file must be included in a preprocessor directive.

ANS: F

8. The statement

```
cout << setprecision(5) << dollars << endl;</pre>
```

will output \$5.00 to the screen.

ANS: F

9. In C++, it is impossible to display the number 34.789 in a field of 9 spaces with 2 decimal places of precision.

ANS: F

10. The fixed manipulator causes a number to be displayed in scientific notation.

ANS: F