(Inaptear Ilwatarting-out-with-c-from-control-structures-through-objects-7e-gaddis

MULI	TIPLE CHOICE			
1.	In a C++ program,	two slash	marks (/ /	/) indicate:

- a. The end of a statement
- b. The beginning of a comment
- c. The end of the program
- d. The beginning of a block of code
- e. None of the above

ANS: B

- 2. A statement that starts with a # is called a:
 - a. Comment
 - b. Function
 - c. Preprocessor directive
 - d. Key word
 - e. None of the above.

ANS: C

- 3. For every opening brace in a C++ program, there must be a:
 - a. String literal
 - b. Function
 - c. Variable
 - d. Closing brace
 - e. None of the above

ANS: D

- 4. The is/are used to display information on the computer's screen.
 - a. Opening and closing braces
 - b. Opening and closing quotation marks
 - c. cout object
 - d. Backslash
 - e. None of the above

ANS: C

- 5. The _____ causes the contents of another file to be inserted into a program.
 - a. Backslash
 - b. Pound sign
 - c. Semicolon
 - d. #include directive
 - e. None of the above

ANS: D

- 6. _____ represent storage locations in the computer's memory.
 - a. Literals
 - b. Variables
 - c. Comments
 - d. Integers

	ANS: B
7.	These are data items whose values do not change while the program is running. a. Literals b. Variables c. Comments d. Integers e. None of the above
	ANS: A
8.	You must have a for every variable you intend to use in a program. a. purpose b. definition c. comment d. constant e. None of the above
	ANS: B
9.	Of the following, which is a valid C++ identifier? a. June1997 bemployee_number cdepartment d. myExtraLongVariableName e. All of the above are valid identifiers.
	ANS: E
10.	The numeric data types in C++ can be broken into two general categories: a. numbers and characters b. singles and doubles c. integer and floating point d. real and unreal e. None of the above
	ANS: C
11.	Besides decimal, two other number systems you might encounter in C++ programs are a. Octal and Fractal b. Hexadecimal and Octal c. Unary and Quaternary d. Base 7 and Base 9 e. None of the above
	ANS: B
12.	A character literal is enclosed in quotation marks, whereas a string literal is enclosed in quotation marks. a. double, single b. triple, double c. open, closed d. single, double e. None of the above

e. None of the above

e. None of the above

13.	 a. In memory, C++ automatically places a	at the end of string literals.
	ANS: C	
14.	 Which escape sequence causes the cursor to move to a. \n b. \t c. \a d. \b e. \r 	o the beginning of the current line?
	ANS: E	
15.	5. What is the modulus operator? a. + b. * c. & d. % e.	
	ANS: D	
16.	 Which data type typically requires only one byte of stora. short int float char double 	orage?
	ANS: D	
17.	7. What is the output of the following statement?	
	cout << 4 * (15 / (1 + 3)) << endl; a. 15 b. 12 c. 63 d. 72 e. None of these	
	ANS: B	
18.	 In programming terms, a group of characters inside a a. String literal b. Variable c. Operation d. Statement 	set of quotation marks is called a:

ANS: A

19.	This is used to mark the end of a complete C++ programming statement. a. Pound Sign b. Semicolon c. Data type d. Void e. None of the above
	ANS: B
20.	Which character signifies the beginning of an escape sequence? a. // b. / c. \ d. # e. {
	ANS: C
21.	must be included in any program that uses the cout object. a. Opening and closing braces b. The header file iostream c. Comments d. Escape sequences e. None of the above
	ANS: B
22.	If you use a C++ key word as an identifier, your program will: a. Execute with unpredictable results b. not compile c. understand the difference and run without problems d. Compile, link, but not execute e. None of the above
	ANS: B
23.	In the C++ instruction,
	<pre>cookies = number % children;</pre>
	given the following declaration statement:
	<pre>int number = 38, children = 4, cookies;</pre>
	what is the value of cookies after the execution of the statement? a. 2 b. 0 c. 9 d5 e. None of these
	ANS: A

24.	This function in C++ allows you to identify how many bytes of storage on your computer system an integer data value requires. a. len b. bytes c. f(x) d. int e. sizeof ANS: E
25.	Character constants in C++ are always enclosed in a. [brackets] b. "double quotation marks" c. 'single quotation marks' d. {braces} e. (parentheses) ANS: C
26.	These are used to declare variables that can hold real numbers. a. Integer data types b. Real data types c. Floating point data types d. Long data types e. None of the above
	ANS: C
27.	The float data type is considered precision, and the double data type is considered precision. a. single, double b. float, double c. integer, double d. short, long e. None of the above
	ANS: A
28.	A variable whose value can be either true or false is of this data type. a. binary b. bool c. T/F d. float e. None of the above.
	ANS: B
29.	How would you consolidate the following declaration statements into one statement?
	<pre>int x = 7; int y = 16; int z = 28;</pre>
	a. int $x = 7$; $y = 16$; $z = 28$;

```
b. int x = 7 y = 16 z = 28;
    c. int x, y, z = 7, 16, 28
    d. int x = 7, y = 16, z = 28;
    e. None of these will work
    ANS: D
30. A variable's is the part of the program that has access to the variable.
    a. data Type
   b. value
    c. scope
    d. reach
    e. None of the above
    ANS: C
31. Every complete C++ program must have a _____
    a. comment
    b. function named main
    c. preprocessor directive
    d. symbolic constant
    e. cout statement
    ANS: B
32. This control sequence is used to skip over to the next horizontal tab stop.
   a. \n
   b. \h
    c. \t
    d. \a
    e. \'
   ANS: C
33. Which one of the following would be an illegal variable name?
    a. dayOfWeek
    b. 3dGraph
    c. employee num
    d. June1997
   e. itemsorderedforthemonth
    ANS: B
34. Look at the following program and answer the question that follows it.
     1
          // This program displays my gross wages.
     2
          // I worked 40 hours and I make $20.00 per hour.
     3
          #include <iostream>
          using namespace std;
     4
     5
     6
          int main()
     7
     8
            int hours;
            double payRate, grossPay;
    9
    10
```

hours = 40;

11

```
payRate = 20.0;
grossPay = hours * payRate;
cout << "My gross pay is $" << grossPay << endl;
return 0;
}</pre>
```

Which line(s) in this program cause output to be displayed on the screen?

a. 13 and 14b. 8 and 9d. 13e. 15

c. 14

ANS: C

35. Which of the following defines a double-precision floating point variable named payCheck?

```
a. float payCheck;b. double payCheck;c. payCheck double;d. Double payCheck;
```

ANS: B

36. What will the following code display?

```
cout << "Monday";
cout << "Tuesday";
cout << "Wednesday";</pre>
```

a. MondayTuesdayWednesday

c. MondayTuesdayWednesday

b. Monday Tuesday Wednesday d. "Monday"
"Tuesday"
"Wednesday"

ANS: C

37. What will the following code display?

ANS: B

38. What will the following code display?

```
int x = 0, y = 1, z = 2;
```

```
cout << x << y << z << endl;
   a. 0 1 2
                                   c. xyz
   b. 0
                                    d. 012
      1
      2
   ANS: D
39. What will the following code display?
       cout << "Four\n" << "score\n";</pre>
       cout << "and" << "\nseven";</pre>
       cout << "\nyears" << " ago" << endl;</pre>
                                    c. Four
   a. Four
      score
                                      score
      and
                                      and seven
      seven
                                       years ago
      years ago
   b. Four score and seven d. Four score
      years ago
                                      and seven
                                       years ago
   ANS: A
40. What will the following code display?
       cout << "Four " << "score ";</pre>
       cout << "and " << "seven/n";</pre>
       cout << "years" << "ago" << endl;</pre>
   a. Four score and seven
      yearsago
   b. Four score and seven
      years ago
   c. Four score and seven/nyearsago
   d. Four
      score
      and
      seven
      yearsago
```

ANS: C

41. What will the following code display?

```
cout << "Four" << "score" << endl;
cout << "and" << "seven" << endl;
cout << "years" << "ago" << endl;</pre>
```

- a. Four score
 - and
 - seven
 - years
 - ago
- b. Four score and seven years ago
- c. Fourscoreandsevenyearsago
- d. Fourscore andseven yearsago

ANS: D

42. Assume that a program has the following variable definition:

char letter;

Which of the following statements correctly assigns the character Z to the variable?

a. letter = Z;

c. letter = 'Z';

- b. letter = "Z";
- d. letter = (Z);

ANS: C

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

int x;
$$x = 18 / 4$$
;

a. 4.5

c. 0

b. 4

d. unknown

ANS: B

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

int x;
$$x = 18.0 / 4;$$

a. 4.5

b. 4 d. unknown

ANS: A

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

int x; x = 18 % 4;

a. 0.45

c. 2

b. 4

d. unknown

ANS: C

46. Assuming you are using a system with 1-byte characters, how many bytes of memory will the following string literal occupy?

"William"

a. 7

c. 8

b. 14

d. 1

ANS: C

47. The first step in using the string class is to #include the header file.

a. iostream

b. cctype

c. cmath

d. string

e. None of the above

ANS: D

48. Assume that a program has the following string object definition:

```
string name;
```

Which of the following statements correctly assigns a string literal to the string object?

a. name = Jane;

c. name = 'Jane';

b. name = "Jane";

d. name = (Jane);

ANS: B

TRUE/FALSE

1. When typing in your source code into the computer, you must be very careful since most of your C++ instructions, header files, and variable names are case sensitive.

ANS: T

2. A preprocessor directive does not require a semicolon at the end.

ANS: T

3. The C++ language requires that you give variables names that indicate what the variables are used for.

ANS: F

4. A variable called "average" should be declared as an integer data type because it will probably hold data that contains decimal places.

ANS: F

5. Escape sequences are always stored internally as a single character.

ANS: T

6. Floating point constants are normally stored in memory as doubles.

ANS: T

7. C++ does not have a built in data type for storing strings of characters.

ANS: T

8. If you do not follow a consistent programming style, your programs will generate compiler errors.

ANS: F