# Starting Out with Java From Control Structures through Objects 6th Edition Gaddis Test Bank

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Gaddis: Starting Out with Java: From Control Structures through Objects, 6/e

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#### Chapter 2

#### **MULTIPLE CHOICE**

- 1. Which one of the following would contain the translated Java byte code for a program named Demo?
  - a. Demo.java
  - b. Demo.code
  - c. Demo.class
  - d. Demo.byte

#### ANS: C

- 2. To compile a program named First, use the following command:
  - a. java First.java
  - b. javac First
  - c. javac First.java
  - d. compile First.javac

### ANS: C

- 3. A Java program must have at least one of these:
  - a. Class definition
  - b. Variable
  - c. Comment
  - d. System.out.println(); statement

#### ANS: A

- 4. In Java, the beginning of a comment is marked with:
  - a. //
  - b. ""
  - c. ;
  - d. #

#### ANS: A

- 5. The term \_\_\_\_\_\_ typically refers to the device that displays console output.
  - a. Standard output device
  - b. Central processing unit
  - c. Secondary storage device
  - d. Liquid crystal display

## ANS: A

- 6. In Java, \_\_\_\_\_ must be declared before they can be used.
  - a. Variables
  - b. Literals
  - c. Key words
  - d. Comments

ANS: A

7. If the following Java statements are executed, what will be displayed?

```
System.out.println("The top three winners are\n");
System.out.print("Jody, the Giant\n");
System.out.print("Buffy, the Barbarian");
System.out.println("Adelle, the Alligator");
a. The top three winners are
Jody, the Giant
Buffy, the Barbarian
Adelle, the Alligator
b. The top three winners are
Jody, the Giant\nBuffy, the BarbarianAdelle, the Alligator
```

- c. The top three winners are Jody, the Giant\nBuffy, the BarbarianAdelle, and the Albino
- d. The top three winners are Jody, the Giant Buffy, the BarbarianAdelle, the Alligator

## ANS: D

- 8. This is a value that is written into the code of a program.
  - a. literal
  - b. assignment statement
  - c. variable
  - d. operator

### ANS: A

- 9. When the + operator is used with strings, it is known as the:
  - a. Assignment operator
  - b. String concatenation operator
  - c. Addition operator
  - d. Combined assignment operator

## ANS: B

10. What would be printed out as a result of the following code?

System.out.println("The quick brown fox" +
 "jumped over the \n"
 "slow moving hen.");

- a. The quick brown fox jumped over the  $\nslow$  moving hen.
- b. The quick brown fox jumped over the slow moving hen.
- c. The quick brown fox jumped over the
  - slow moving hen.
- d. Nothing. This is an error.

ANS: D

11. Which of the following is not a rule that must be followed when naming identifiers?

- a. The first character must be one of the letters a-z, A-Z, and underscore or a dollar sign.
- b. Identifiers can contain spaces.
- c. Uppercase and lowercase characters are distinct.
- d. After the first character, you may use the letters a-z, A-Z, the underscore, a dollar sign, or digits 0-9.

### ANS: B

- 12. Which of the following cannot be used as identifiers in Java?
  - a. Variable names
  - b. Class names
  - c. Key words
  - d. All of the above
  - e. None of the above

## ANS: C

- 13. In Java, it is standard practice to capitalize the first letter of:
  - a. Class names
  - b. Variable names
  - c. Key words
  - d. Literals

# ANS: A

- 14. Which of the following is not a primitive data type?
  - a. short
  - b. long
  - $c. \quad \texttt{float}$
  - d. String

# ANS: D

- 15. Which of the following is valid?
  - a. float y; y = 54.9;
  - b. float y; double z; z = 934.21; y = z;
  - c. float w; w = 1.0f;
  - d. float v; v = 1.0;

## ANS: C

16. The boolean data type may contain values in the following range of valuesa. true or false

- b. -128 to + 127
- c. 2,147,483,648 to +2,147,483,647
- d. 32,768 to +32,767

#### ANS: A

- 17. Character literals are enclosed in \_\_\_\_\_; string literals are enclosed in \_\_\_\_\_.
  - a. single quotes; single quotes
  - b. double quotes; double quotes
  - c. single quotes; double quotes
  - d. double quotes; single quotes

ANS: C

18. What is the result of the following expression?

```
10 + 5 * 3 - 20
  -5
b. 5
c. 25
d. -50
```

ANS: B

a.

19. What is the result of the following expression?

25 / 4 + 4 \* 10 % 3 a. 19 b. 5.25

ANS: D

c. 3 d. 7

20. What will be displayed as a result of executing the following code?

int x = 5, y = 20; x += 32; y /= 4;System.out.println("x = " + x + ", y = " + y); a. x = 32, y = 4b. x = 9, y = 52c. x = 37, y = 5d. x = 160, y = 80

ANS: C

21. What will be the value of z as a result of executing the following code?

```
int x = 5, y = 28;
float z;
z = (float) (y / x);
a. 5.60
b. 5.6
c. 3.0
d. 5.0
```

ANS: D

22. What will be the displayed when the following code is executed?

ANS: D

23. In the following Java statement what value is stored in the variable name?

```
String name = "John Doe";
```

- a. John Doe
- b. The memory address where "John Doe" is located
- c. name
- d. The memory address where name is located

ANS: B

24. What will be displayed as a result of executing the following code?

a. I am enjoying this class. I AM ENJOYING THIS CLASS. i am enjoying this class. Character at index x = e msg has 24 characters.

- b. I am enjoying this class.
  I AM ENJOYING THIS CLASS.
  i am enjoying this class.
  Character at index x = e
  msg has 25 characters.
- c. I am enjoying this class.
  I AM ENJOYING THIS CLASS.
  i am enjoying this class.
  Character at index x = n
  msg has 24 characters.
- d. I am enjoying this class. I AM ENJOYING THIS CLASS.
  i am enjoying this class. Character at index x = n msg has 25characters.

ANS: D

25. What will be displayed as a result of executing the following code?

```
public class test
{
   public static void main(String[] args)
   {
      int value1 = 9;
      System.out.println(value1);
      int value2 = 45;
      System.out.println(value2);
      System.out.println(value3);
      value = 16;
   }
}
   9
a.
   45
   16
b. 94516
  9 45 16
c.
d. Nothing, this is an error
```

ANS: D

26. Which of the following is not a valid comment statement?

```
a. // comment 1
b. /* comment 2 */
c. */ comment 3 /*
d. /** comment 4 */
```

ANS: C

- 27. When saving a Java source file, save it with an extension of
  - a. .javac
  - b. .class
  - c. .src
  - d. .java

ANS: D

- 28. Every Java application program must have
  - a. a class named MAIN
  - b. a method named main
  - c. comments
  - d. integer variables

ANS: B

- 29. To print "Hello, world" on the monitor, use the following Java statement
  - a. SystemOutPrintln("Hello, world");
  - b. System.out.println{"Hello, world"}
  - c. System.out.println("Hello, world");
  - d. Print "Hello, world";

ANS: C

- 30. To display the output on the next line, you can use the println method or use this escape sequence in the print method.
  - a. ∖n
  - b. \r
  - c.  $\t$
  - d. ∖b

ANS: A

- 31. This is a named storage location in the computer's memory.
  - a. Literal
  - b. Constant
  - c. Variable
  - d. Operator

ANS: C

32. What would be displayed as a result of the following code?

a. There are 583 hens in the hen house.

- b. There are 5785 hens in the hen house.
- c. There are x5 hens in the hen house.
- d. There are 5785 hens in the hen house.

ANS: D

- 33. Variables are classified according to their
  - a. value
  - b. data type
  - c. names
  - d. location in the program

# ANS: B

- 34. The primitive data types only allow a(n) \_\_\_\_\_ to hold a single value.
  - a. variable
  - b. object
  - c. class
  - d. literal

# ANS: A

- 35. If x has been declared an int, which of the following statements is invalid?
  - a. x = 0; b. x = -58932; c. x = 1,000; d. x = 592;

ANS: C

36. Given the declaration double r;, which of the following statements is invalid?

a. r = 326.75; b. r = 9.4632e15; c. r = 9.4632E15; d. r = 2.9X106;

ANS: D

- 37. Variables of the boolean data type are useful for
  - a. working with small integers
  - b. evaluating true/false conditions
  - c. working with very large integers
  - d. evaluating scientific notation

ANS: B

38. What is the result of the following expression?

25 - 7 \* 3 + 12 / 3

- a. 6 b. 8 c. 10
- d. 12

ANS: B

39. What is the result of the following expression?

17 % 3 \* 2 - 12 + 15 7 b. 8 c. 12

d. 105

a.

ANS: A

40. What will be displayed after the following statements have been executed?

```
int x = 15, y = 20, z = 32;
x += 12;
y /= 6;
z -= 14;
System.out.println("x = " + x +
                       ", y = " + y +
                      ", z = " + z);
a. x = 27, y = 3.333, z = 18
b. x = 27, y = 2, z = 18
c. x = 27, y = 3, z = 18
d. x = 37, y = 14, z = 4
```

ANS: C

41. What will be the value of z after the following statements have been executed?

```
int x = 4, y = 33;
double z;
z = (double) (y / x);
a. 8.25
b. 4
c. 8
d. 8.0
```

# ANS: D

- 42. This is a variable whose content is read only and cannot be changed during the program's execution.
  - a. operator
  - b. literal
  - c. named constant

```
d. reserved word
```

ANS: C

43. What will be displayed after the following statements have been executed?

```
final double x = 99.0;
x = 54.3;
System.out.println("x = " + x );
a. x = 54.3
b. x = 99
c. x = 153.3
d. Nothing, this is an error.
```

ANS: D

```
44. Which of the following is a valid Java statement?
a. String str = 'John Doe';
b. string str = "John Doe";
c. string str = 'John Doe';
d. String str = "John Doe";
```

ANS: D

45. What will be displayed as a result of executing the following code?

- a. I am enjoying java.
  I AM ENJOYING JAVA.
  i am enjoying java.
  Character at index x = j msg has 20 characters.
- b. I am enjoying java.
  I AM ENJOYING JAVA.
  i am enjoying java.
  Character at index x = o msg has 20 characters.
- c. I am enjoying java.

I AM ENJOYING JAVA. i am enjoying java. Character at index x = omsg has 19 characters.

d. I am enjoying java.
I AM ENJOYING JAVA.
i am enjoying java.
Character at index x = y msg has 19 characters.

ANS: C

- 46. Which of the following does not describe a valid comment in Java?
  - a. Single line comments, two forward slashes / /
  - b. Multi-line comments, start with / \* and end with \* /
  - c. Multi-line comments, start with \*/ and end with /\*
  - d. Documentation comments, any comments starting with / \*\* and ending with \*/

ANS: C

- 47. Which of the following statements correctly creates a Scanner object for keyboard input?
  - a. Scanner kbd = new Scanner(System.keyboard);
  - b. Scanner keyboard(System.in);
  - c. Scanner keyboard = new Scanner(System.in);
  - d. Keyboard scanner = new Keyboard(System.in);

ANS: C

- 48. Which Scanner class method reads an int?
  - a. readInt()
     c. getInt()

     b. nextInt()
     d. read\_int()

ANS: B

49. Which Scanner class method reads a String?

a.	readString()	c.	getString()
b.	nextString()	d.	nextLine()

ANS: D

50. Which one of the following methods would you use to convert a string to a double?

a.	Byte.ParseByte	c.	Integer.ParseInt
b.	Long.ParseLong	d.	Double.ParseDouble

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ANS: D

### **TRUE/FALSE**

1. A Java program will not compile unless it contains the correct line numbers.

ANS: F

2. All Java statements end with semicolons.

ANS: F

3. Java is a case-insensitive language.

ANS: F

4. Although the dollar sign is a legal identifier character, you should not use it because it is normally used for special purposes.

ANS: T

5. Assuming that pay has been declared a double, the following statement is valid. pay = 2,583.44;

ANS: F

6. Named constants are initialized with a value, that value cannot be changed during the execution of the program.

ANS: T

7. A variable's scope is the part of the program that has access to the variable.

ANS: T

8. In Java the variable named total is the same as the variable named Total.

ANS: F

9. Class names and key words are examples of variables.

ANS: F

10. Both character literals and string literals can be assigned to a char variable.

ANS: F

11. If the compiler encounters a statement that uses a variable before the variable is declared, an error will result.

ANS: T

12. Programming style includes techniques for consistently putting spaces and indentation in a program so visual cues are created.

ANS: T

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