Name			

Q1: Which of the following does *not* represent a capability of the printf method?

a.Center justification of outputs.b.Left justification of outputs.c.Right justification of outputs.d.Inserting literal characters at precise locations in a line of output.

Q2: Each format specifier begins with a(n) _____ and is followed by a conversion character that represents the data type of the value to output.

a.asterisk (*). b.percent sign (%). c.dollar sign (\$). d.question mark (?).

Q3: What does the 4 signify in the following statement? System.out.printf("%4d\n", 123);

a.degree of exponentiation b.floating point precision c.field width d.none of these

Q4: The statement System.out.printf("%-7.2f", 98.736); uses ______ for the precision, ______ for the field width and outputs the value 98.74 _____.

a.7, 2, left justified.b.2, 7, left justified.c.2, 7, right justified.d.7, 2, right justified.

Q5: The static method ______ of class String returns a formatted String.

- a. printf.
- b. format.
- c. formatString.
- d. toFormatString.

Q6: Which of the following should usually be **private**?

- a. Methods.
- b. Constructors.
- c. Variables (or fields).
- d. All of the above.

Q7: Static class variables:

- a. are final.
- b. are **public**.
- c. are **private**.
- d. are shared by all objects of a class.

Q8: Which of the following statements about arrays are true?

- A. Arrays are a group of variables containing values that all have the same type.
- B. Elements are located by index or subscript.
- C. The length of an array c is determined by the expression c.length();.
- D. The zeroth element of array c is specified by c[0].

a. A, C, D. b. A, B, D. c. C, D. d. A, B, C, D.

Q9: A programmer must do the following before using an array:

- a. declare then reference the array.
- b. create then declare the array.
- c. create then reference the array.
- d. declare then create the array.

Q10: Consider the code segment below. Which of the following statements is *false*?

int g[]; g = new int[25];

a. The first statement declares an array reference.

b. The second statement creates the array.

c. g is a reference to an array of integers.

d. The value of g[3] is -1.

Q11: What do the following statements do?

double array[]; array = new double[14];

a. Creates a double array containing 13 elements.

b. Creates a double array containing 14 elements.

c. Creates a double array containing 15 elements.

d. Declares but does not create a double array.

Q12: Which of the following initializer lists would correctly set the elements of array n?

a. int n[] = { 1, 2, 3, 4, 5 };. b. array n[int] = { 1, 2, 3, 4, 5 };. c. int n[5] = { 1; 2; 3; 4; 5 };. d. int n = new int(1, 2, 3, 4, 5);.

Q13: Invalid possibilities for array indices include _____.

a. Positive integers.b. Negative integers.c. Zero.d. None of the above.

Q14: Which expression adds 1 to the element of array arrayName at index i?

a. ++arrayName[i].b. arrayName++[i].c. arrayName[i++].d. None of the above.

Q15: Consider integer array values, which contains 5 elements. Which statements successfully *swap* the contents of the array at index 3 and index 4?

a.

values[3] = values[4]; values[4] = values[3];

b.

values[4] = values[3]; values[3] = values[4];

c.

int temp = values[3]; values[3] = values[4]; values[4] = temp;

d.

int temp = values[3]; values[3] = values[4]; values[4] = values[3];

Q16: Assume array items contains the values 0, 2, 4, 6 and 8. Which of the following set of statements uses the for loop to display each value in array items?

a.

for (int i = 0; i <= items.length; i++)
System.out.prinf("%d\n", items[i]);</pre>

b.

for (int i = 1; i < items.length; i++)
System.out.prinf("%d\n", items[i]);</pre>

c.

for (int i = 0; i < items.length; i++)
System.out.prinf("%d\n", i);</pre>

d.

for (int i = 0; i < items.length - 1; i++)
System.out.prinf("%d\n", items[i]);</pre>

Q17: In an expression containing values of the types int and double, the _____ values are _____ to values for use in the expression.

a. int, promoted, double.

b. int, demoted, double.

c. double, promoted, int.

d. double, demoted, int.

Q18: Which of the following statements about the **continue** statement is true?

- a. The **continue** statement is used to exit a repetition structure early and continue execution after the loop.
- b. The **continue** statement is used to continue after a **switch** statement.
- c. The **continue** statement does not alter the flow of control.
- d. A **continue** statement proceeds with the next iteration of the immediately enclosing **while**, **for**, **do...while** statement.

Q19: Information is passed to a method in:

- a. the method name.
- b. that method's return.
- c. the method body.
- d. the arguments to the method.

Q20. To declare a method as static, place the keyword static before ______ in the method's declaration.

- a. the method modifier.
- b. the return type.
- c. the method name.
- d. the argument list.

Q21: Which of the following is *not* true about the conditional operator (?:)?

- a. The conditional operator is a ternary operator, meaning that it takes three operands.
- b. The first operand is a boolean expression.
- c. The second operand is the result value if the condition evaluates to false.
- d. The second operand is the result value if the condition evaluates to true.

Q22: Which is a correct static method call of Math class method sqrt?

- a. sqrt(900);.
- b. math.sqrt(900);.
- c. Math.sqrt(900);.
- d. Math math = new Math(); math.sqrt(900);.

Q23: The parameter list in the method header and the arguments in the method call must agree in:

- a. number
- b. type
- c. order
- d. all of the above

Q24: Which operator can be used in string concatenation?

- a. *.
- b. +=.
- c. ++.
- d. =+.

Q25: A class instance creation expression contains:

- a. Parentheses.
- b. The new keyword.
- c. The name of the class.
- d. All of the above.

Q26: Which of the following promotions of primitive types is NOT allowed to occur?

- a. char to int.
- b. int to double.
- c. short to long.
- d. double to int.

Q27: Which statement below could be used to simulate the outputs of tossing a quarter to get heads or tails? Suppose *randomNumbers* is a Random object.

- a. randomNumbers.nextInt(3);
- b. randomNumbers.nextInt(2);
- c. randomNumbers.nextInt(1);
- d. randomNumbers.nextInt(2) + 1;

Q28: Which statement below could be used to simulate the outputs of rolling a six-sided die? Suppose *randomNumbers* is a Random object.

- a. 1 + randomNumbers.nextInt(6);
- b. 1 + randomNumbers.nextInt(7);
- c. 6 + randomNumbers.nextInt(1);
- d. 3 + randomNumbers.nextInt(3);

Q29: Which of the following statements describes block scope?

- a. It begins at the opening { of the class declaration and terminates at the closing }
- b. It limits label scope to only the method in which it is declared.
- c. It begins at the identifier's declaration and ends at the terminating right brace (}).
- d. It is valid for one statement only.

Q30: Which of the following is not a syntax error?

- a. System.out.println('Hello world!'):
- b. System.out.println("Hello world!');
- c. System.out.println("Hell/xx world!");
- d. System.out.println(Hello world!);

Q31: Which of the following will count down from 10 to 1 correctly?

- a. for (int j = 10; j <= 1; j++)
- b. for (int j = 1; j <= 10; j++)
- c. for (int j = 10; j > 1; j--)
- d. for (int j = 10; j > 0; j--)

Q32: Which of the following is not a syntax error?

- a. Neglecting to initialize a local variable in a method before it is used.
- b. Using a single equals sign instead of a double equals sign in the condition of an *if* statement.
- c. Placing a semicolon at the end of the first line of an *if* statement.
- d. Omitting the left and right parenthesis for the condition of an if statement.

Q33: Every Java application is composed of at least one:

- a. local variable
- b. instance variable
- c. public class declaration
- d. imported class

Q34: Any field declared with keyword ______ is constant.

- a. static.
- b. const.
- c. constant.
- d. final.

Q35: Declaring main as ______ allows the JVM to invoke main without creating an instance of the class.

- a. public.
- b. void.
- c. static.
- d. final.

Q36: A Java class can have which of the following methods?

- A. void foo(int a)
- B. void foo(int a, int b)
- C. void foo(double a)
- D. void foo(double a, double b)
- E. void foo(int b)
- a. All of the above.
- b. A, B, D, E.
- c. A, B, C, D.
- d. A, C, D, E.

Q37: Which of the following statements is *true*?

- a. Methods and instance variables can both be either **public** or **private**.
- b. Information hiding is achieved by restricting access to class members via keyword public.
- c. The private members of a class are directly accessible to the client of a class.
- d. None of the above is true.

Q38: A constructor *cannot*:

- a. be overloaded.
- b. initialize variables to their defaults.
- c. specify return types or return values.
- d. have the same name as the class.

Q39: Using **public** set methods provides data integrity if:

- a. The instance variables are **public**.
- b. The instance variables are **private**.
- c. The methods perform validity checking.
- d. Both b and c.

Q40. The empty statement is denoted with what symbol?

- a. Semicolon;
- b. Parentheses ()
- c. Braces {}
- d. End-of-line comment //