**EXAM 2**

**HOMEWORK 5**

Q1: Counter-controlled repetition requires

*All of the above.*

Q2: The control variable of a counter-controlled loop should be declared as \_\_\_\_\_ to prevent errors.

*int*

Q3: Which formatting flag indicates that the floating-point values should be output with a thousands separator?

*Comma (,).*

Q4: To exit out of a loop completely, and resume the flow of control at the next statement after the loop, use a \_\_\_\_\_.

*break statement.*

Q5: Boolean values can be displayed as the words true and false with the \_\_\_\_\_ format specifier.

*%b*

Q6: Which of the following is not a type of repetition statement in Java?

*loop statement*

Q7: Which of the following statements about a do…while repetition statement is true?

*The body of a do…while loop is always executed at least once.*

Q8: Which of the following will not help prevent infinite loops?

*Include braces around the statements in a do…while statement.*

Q9: Which of the following statements about the switch statement is false?

*You can use a comma-separated list of Strings in a switch statement’s case label.*

Q10: Which of the following statements about the continue statement is true?

*A continue statement proceeds with the next iteration of the immediately enclosing while, for, do…while statement.*

**HOMEWORK 6**

Q1: Information is passed to a method in \_\_\_\_\_\_\_\_.

*the arguments to the method*

Q2: A well-designed method \_\_\_\_\_\_\_\_.

*Performs a single, well-defined task*

Q3: To declare a method as static, place the keyword static before \_\_\_\_\_\_\_\_ in the method’s declaration.

*the return type*

Q4: Which is a correct static method call of Math class method sqrt?

*Math.sqrt(900);*

Q5: Which of the following methods is not in the Math class?

*parseInt*

Q6: Which of the following can be an argument to a method?

*All of the above.*

Q7: Any field declared with keyword \_\_\_\_\_\_\_\_ is constant.

*Final*

Q8: Declaring main as static allows the JVM to invoke main \_\_\_\_\_\_\_\_.

*without creating an instance of the class in which main is declared.*

Q9: Variables should be declared as fields only if \_\_\_\_\_\_\_\_.

*they are required for use in more than one method or their values must be saved between calls to the class’s methods*

Q10: A static method can \_\_\_\_\_\_\_\_.

*All of the above.*

**HOMEWORK 7**

Q1: Arrays are \_\_\_\_\_.

*fixed-length entities*

Q2: A programmer must do the following before using an array:

*declare then create the array.*

Q3: Which of the following statements about creating arrays and initializing their elements is false?

*The elements of an array of integers have a value of null before they are initialized.*

Q4: Which of the following initializer lists would correctly set the elements of array n?

*int[] n = {1, 2, 3, 4, 5};.*

Q5: Constant variables also are called .

*named constants*

Q6: Which of the following will not produce a compiler error?

*Changing the value at a given index of an array after it is created.*

Q7: Which flag in a format specifier indicates that values with fewer digits than the field width should begin with a leading 0?

*O.*

Q8:

Invalid possibilities for array indices include .

*Negative integers.*

Q9: Which expression adds 1 to the element of array arrayName at index i?

*++arrayName[i].*

Q10: A(n) \_\_\_\_\_\_\_\_ indicates a problem that occurs while a program executes.

*Exception*

**HOMEWORK 8**

Q1:

The \_\_\_\_\_\_\_\_\_ of a class are also called the public services or the public interface that the class provides to its clients.

*Public methods.*

Q2: The static method \_\_\_\_\_\_\_\_ of class String returns a formatted String.

*Format*

Q3: Which of the following class members should usually be private?

*Variables*

Q4: When must a program explicitly use the this reference?

*Accessing an instance variable that is shadowed by a local variable.*

Q5: Having a this reference allows:

*All of the above.*

Q6: A constructor cannot:

*Specify return types or return values.*

Q7 Constructors:

*Both (a) and (c).*

Q8: A programmer-defined constructor that has no arguments is called a(n) \_\_\_\_\_\_\_\_.

*No-argument constructor*

Q9: When implementing a method, use the class’s set and get methods to access the class’s \_\_\_\_\_\_\_\_ data.

*Private*

Q10: Composition is sometimes referred to as a(n) \_\_\_\_\_\_\_\_.

*has-a relationship*