Fall 2017 - CS2540 - Programming Workshop

Quiz 4

CIN: 
Name: 

1) In method overloading, two methods can have the same name but it should differ by, (1 mark)
   a) Number of parameters. 
   b) Type of parameters.
   c) Return type of method.
   d) Any of the above.

2) The scope of the local variable is. (1 mark)
   a) The class in which it is defined.
   b) The block in which it is defined.
   c) The program in which it is defined.
   d) All of the above.

3) ___________ keyword is used to return the result to the function call. (1 mark)

4) The method that does not return a value is called __________ method. (1 mark)

5) The parameters in the function definition are called __________ parameters. (1 mark)

6) The parameters in the function call are called __________ parameters. (1 mark)

7) Array index starts with _______. (1 mark)

8) When creating array of numeric data type it is assigned with ______ as default value. (1 mark)

9) Parameters are not optional for functions in java ( True/False ) (1 mark)

10) The parameters passed in the function call cannot have the same name as the parameters passed in the function definition ( True/False ) (1 mark)

11) If the value for a and b are 1 and 2 respectively, then will this function work? If so, what will be the output? If not, what will be the error? (1 mark)

```java
public static void sum(int a, int b) {
    int c;
    c = a+b;
    System.out.println(c);
    return;
}
```
12) String myArray[] = new String[] {“Good Morning”};

   myArray.____________ will give you the size of the above array. The size will be ________.

13) Write a single line java statement for the following,

   a) Declare a three dimensional integer array A with size to be 2 X 3 X 4. (1 mark)
   b) Initialize values for the above declared three dimensional array. (1 mark)
   c) Pass the above three dimensional array as a parameter to a function call. (1 mark)
   d) Write a function header with a three dimensional array as a parameter. (1 mark)

14) Define the following:

   a) **Method abstraction.** (1 mark)
   b) **Garbage collection.** (1 mark)

15) Write the syntax and example for the following,

   a) Defining a Function. (2 marks)
   b) Calling a Function. (2 marks)
   c) Foreach loop. (2 marks)

16) Given an array A = {6, 3, 0, 7, 4, 2, 8, 5, 1}. Write a program for the following.

   a) Linear search (Element to be searched is 5) (3 marks)
   b) Binary search (Element to be searched is 9) (6 marks)
   c) Bubble sort (3 marks)
   d) Selection sort (6 marks)

17) Write a Java program which calls a method to get two sorted arrays A and B of sizes m = 8 and n = 12 respectively from the user and returns them. Write and call a method which takes these two sorted arrays as parameters and merges them into a **single sorted array** and display it. (8 marks)