Semester 2 – Review #2

1. (int)(Math.random()*5 + 8) returns
a) 5 to 8   b) 5 to 13   c) 8 to 13   d) 5 and 8   e) none of these

2. 100/3 + 51%10 returns
a) 2   b) 34   c) 34.3   d) 8   e) none of these

3. ("MVHS").compare To("MV") returns
a) a positive number   b) a negative number c) zero

4. ("catacomb").lastIndexOf('c', 5) returns
a) 0   b) 1   c) 4   d)5   e) none of these

5. ("fruit fly").trim()).length() returns
a) 9   b) 8   c) 7   d) 6   e) none of these

6. ("last final").substring(2,6) returns
a) ast f b) st fi c) s i   d)st f   e) none of these

7. String a = "a";
          a = "b";
     String c = new String("b");
How many objects were created?
a) 3   b) 2   c) 1   d) 0   e) none of these

8. How are length() and length different?
    a) One is a method, the other is an attribute.
    b) One works for Strings, the other works for arrays.
    c) One works for objects, the other works for primitive data types.
    d) a and b
    e) a, b, and c

9. What method is important to use when creating a JFrame program?
    a) setSize()
    b) setVisible()
    c) init()
    d) a and b
    e) a, b, and c

10. How do the three loop types differ?
    a) For is the most concise
    b) Do... while runs only once
    c) For uses three conditions rather than one
    d) a and b
    e) none of these

11. false && true returns
    a) true
    b) false

12. true || (false && false) returns
    a) true
    b) false

13. Error index out of bounds means
    a) An array or String is too long for storage
    b) A position does not exist in the array or String
    c) A character does not exist in the array or String
    d) The array or String was recycled as garbage
    e) No values were assigned to the array or String

14. Null pointer exception means
    a) An object was not declared appropriately
    b) An object was not instantiated
    c) An object was recycled as garbage
    d) A position does not exist in an array or String
    e) An array or String is too long for storage

15. -1 gets returned from which of the following
    a) ("java").substring(5)
    b) ("java").indexOf('b')
    c) ("java").charAt(-1)
    d) ("java").compareTo("java")
    e) none of these

16. Which is a valid identifier in Java (obeying convention)
    a) float
    b) set-flow
    c) 2cool
    d) Baby
    e) None of these

17. Which assigns "set" to the String x?
    a) String x = "set"
    b) String x = new String ("set")
    c) String [] x = new String {"set"}
    d) "set" = x String
    e) a and b

18.
```java
class MyPoint
{
 public void myMethod()
  {
      int x, y;
      x = 5; y = 3;
      System.out.print( " ( " + x + ", " + y + " ) " );
      switchCoords( x, y );
      System.out.print( " ( " + x +", " + y + " ) " );
  }
  public void switchCoords( int x, int y )
  {
      int temp;
      temp = x;
      x=y ;
      y = temp;
      System.out.print(" ( " + x + ", " + y + " ) " );
  }
}
```

myMethod() is executed. What is the output?
   a) (5,3) (5,3) (5,3)
   b) (5,3) (3,5) (3,5)
   c) (5,3) (3,5) (5,3)
   d) (3,5) (5,3) (3,5)
   e) none of these

19. How would you declare an array of 31 decimals stored as snow?
   a) snow [] = new double [31]
   b) double [] = new snow [31]
   c) double [] snow = new double[31]
   d) double [] snow = new snow [31]
   e) none of these

20. arr[0] = new int[4];
     arr[1] = new int[3];
     arr[2] = new int[2];
     arr[3] = new int[1];
     for(int n = 0; n < 4; n++)
         System.out.println(/* what goes here? */);

Which statement below, when inserted as the
body of the for loop, would print the number of values in each row?
   a) arr[n].length()
   b) arr.size
   c) arr.size-1
   d) arr[n][size]
   e) arr[n].length

21. What is a correct way of declaring a 3-element array of integers called frogs?
   a) frogs = frogs [3]
   b) frogs = new int [3]
   c) int [] frogs = { 1, 2, 3}
   d) int [] frogs = new frogs [3]
   e) int frogs = {1, 2, 3}

22. What is invalid for use as a condition for the following blank: if (_____)?
   a) x=2
   b) "cat".equals("rat")
   c) arr [3] == 1
   d) true
   e) none of these or more than one of these

23. How many objects are eligible for garbage
collection once execution has reached the line labeled Line A?

   String name;

   String newName = "Nick";

   newName = "Jason";

   name = "Frieda";

   String newestName = name;

   name = null;

   //Line A
a) 0   b) 1   c) 2   d) 3   e) none of these

24. "coolness".charAt(6) returns
a) c   b) 1   c) s   d) e   e) none of these

25. "froggie goes hopping".substring(12) returns
a) error   b) hopping   c) (space)   d) hopping (with space at front)

26. 5.6*23/5-8+2.1/4 > 15 returns
a) true b) false

27. The code in #26 on the left side of the equation returns
a) double   b) int   c) boolean   d) none of these

28. ("65"). compare To("5") returns
a) a positive number   b) a negative number   c) zero

29. + is
   a) used to combine numbers mathematically
   b) used to concatenate
   c) used to increment when paired with another symbol of its type
   d) a and b
   e) a, b, and c

30. drawString() takes what parameters (in order)?
    a) String, int, int
    b) String only
    c) String, double, int
    d) int, int, String
    e) none of these

31. println() takes what parameters (in order)?
    a) String, int, int
    b) String only
    c) String, double, int
    d) int, int, String
    e) none of these