Short Answer (3 Points)

1.) A(n) ________________ data structure creates an association between a key and a value, and may be implemented with a hash.

2.) ________________ allow the compiler to perform compile-time checks for type-safety, and eliminate the need for class casts.

3.) A class' ________________ can be described as the set of public fields and methods the class makes available to a programmer.

True or False (5 Points - Please circle your answer)

4.) (True / False) - A variable of type T can be added to a LinkedList<? super T>, but not to a LinkedList<? extends T>.

5.) (True / False) - The following assignment is legal, because String is a subclass of Object.

   LinkedList<Object> objectList = new LinkedList<String>();

6.) (True / False) - Anonymous inner classes are the only type of class that can inherit a constructor.

7.) (True / False) - An anonymous inner class must extend a class or implement an interface.

8.) (True / False) - The default LayoutManager of a JFrame is FlowLayout.

Multiple Choice (2 Points - Please circle your answer)

9.) The most logical LayoutManager for a simple calculator GUI would be:

   a.) BorderLayout
   b.) GridLayout
   c.) FlowLayout
   d.) GridBagLayout

10.) When writing event handlers for our swing GUIs, we use classes in the java.awt.event package because:

   a.) Event classes in AWT are more robust cross-platform than their swing counterparts.
   b.) Event classes have no graphical representation, thus, are not present in swing.
   c.) Swing's event model is only used for non-windowed applications.