**True/False Questions**

1. (T/F) A field is a collection of related records
   1. FALSE
2. (T/F) "isMDIContainer" must be set to false if form is to be an MDI parent.
   1. FALSE
3. (T/F) You CANNOT create a custom control from scratch.
   1. FALSE
4. (T/F) Today, ComboBoxes are used primarly as a means of displaying a list of items.
   1. TRUE
5. (T/F) A ComboBox is, essentially, a TextBox and a DropDownList.
   1. TRUE
6. (T/F) A simple definition for recurrsion is when a method calls itself.
   1. TRUE

**Multiple Choice Questions**

1. A ComboBox has 3 modes of operation specified by the value in the DropDownStyle property. Which of the following is NOT one of them? (Simple, One, DropDown, DropDownList)
   1. ONE

**Short Answer/Essay Questions**

1. Explain the primary differences between Panel and GroupBox containers.
   1. Panel
   2. Groupbox has thin borders by default, can display a caption and does not have a scroll bar.
2. Explain the primary differences between **CheckBox**and **RadioButton**controls.
   1. Checkbox can have multiple selections by default
   2. Radio buttons are mutually exclusive by default. Radio buttons are usually placed in containers so they can be used on the same form EXPLAIN AND REFINE
3. In .NET, how do **RadioButton**controls become part of a set of mutually exclusive choices?
4. The **ListBox**control has four modes of operation specified by the value stored in
   1. ONE
5. its **SelectionMode**property. Name and describe each of these modes.
   1. ONE
6. The **ComboBox**control has three modes of operation specified by the value stored in its **DropDownStyle**property. Name and describe each of these modes.
   1. ONE
7. What is *visual inheritance*? Describe how it might be used to enforce elements of a corporate "look and feel" standard.
   1. ONE
8. Describe three different approaches to creating custom GUI controls for use in your projects.
   1. ONE
9. The hierarchy of data includes bits, records, fields, files, and bytes. Define these terms and specify their proper place in the hierarchy of data (from smallest to largest).
   1. ONE
10. How does the use of *object serialization* compare to simply writing our data to a text file?
    1. ONE
11. What is *buffering*? How does the use of buffering improve the I/O performance?
    1. ONE
12. Provide a thorough definition of recursion.
    1. ONE
13. Describe, in words, how the *binary search* algorithm works when searching an array for a target value. Be sure to mention any requirements of the array’s data. Remember, sometimes searches find the target value in the array and sometimes the target value is not present. Your answer should address how the algorithm handles both of these exit conditions.
    1. ONE
14. Describe, in words, how the *linear search* algorithm works when searching an array for a target value. Be sure to mention any requirements of the array’s data. Remember, sometimes searches find the target value in the array and sometimes the target value is not present. Your answer should address how the algorithm handles both of these exit conditions.

14. Putting "@" in front of a string (@"C:\") creates what kind of string? Explain what the string does.

15. Describe 3 ways to create custom controls.

16. Is it faster to write larger chunks of information for file process bufferers in .NET, or is it faster to write multiple smaller chunks? Explain.

17. What are the differences (if there are any) between a GroupBox and a Panel?

18. What do the 3 ComboBox modes of operation specified by the value in DropDownStyle property do? To answer this question, list the name of the mode of operation and list what that mode does.