

# Santiago Canyon College

Computer Science 205  
Advanced VB Programming  
Fall 2011  
Final Exam

**Please read each question carefully and choose the best answer. Each question is worth 3 points.**

1. Visual Studio uses ADO to manipulate several types of databases. Which of the following are needed to make such a project function?
  - A. data view object, data grid, data adapter
  - B. connection, adapter, SQL table.
  - C. data adapter, connection, dataset
  - D. data adapter & dataset
  - E. data view object, adapter, SQL table
  
2. What two things are passed to an SqlDataAdapter when you instantiate it?
  - A. SQL query & Connection object
  - B. DataView & DataSet names
  - C. DB Provider and DB path
  - D. Connection string and datagrid
  - E. DataSet & DB table name
  
3. What is the default folder in a VB project?
  - A. \project
  - B. \obj\bin
  - C. \bin\debug
  - D. None of these
  
4. The data adapter relies on the \_\_\_\_\_ object to know which database we are using and where it is located.
  - A. DataView
  - B. DataSet
  - C. SQL string
  - D. Datagrid
  - E. None of these

5. I can use a Setting in my solution to hold my connection string.
- A. True
  - B. False
6. When the following is executed, all records in the employees table are retrieved.  
**SQL = "SELECT \* From Employees Order By LastName"**
- A. True
  - B. False
7. What is happening in this code?

**runningTotal = runningTotal + CDec(txtPrice.Text)**

- A. It is adding runningTotal twice.
  - B. It converts runningTotal to a string.
  - C. It converts runningTotal to a decimal.
  - D. None of the above
8. What does **Option Explicit On** mean?
- A. It creates automatic variables.
  - B. It forces us to use only integers.
  - C. It creates "Local-Scope" variables.
  - D. None of these are true
9. In the code below, what is "description"?
- ```

Try
    SqlDataAdapter1.Fill(DsCustomers2, "tblcustomers")
    DAProducts.Fill(DsProducts2, "tblproducts")
Catch
    MsgBox("There was an error loading the database" & Err.Description)
    Me.Close()
End Try

```
- A. It is a property of the error object.
  - B. It is the caption of the message box.
  - C. It is a property of the Err class I created.
  - D. Both b & c are correct.
  - E. None of these are true.

10. Look at the following code. What does line 2 do?

```
Private Sub btnCombo1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
```

1. lstOrder.Items.Add(btnCombo1.Text)
2. lstPrices.Items.Add(FormatNumber("5.50"))
3. runningTotal = runningTotal + CDec(5.5)
4. lblSubTotal.Text = FormatNumber(runningTotal.ToString)

```
End Sub
```

- A. It adds what is in the textbox to the list of items in the Listbox & formats it without a "\$" sign.
  - B. It takes the item in the listbox and puts it into the textbox & formats it without a "\$" sign.
11. Microsoft created ADO to operate using a disconnected data model.
- A. True
  - B. False
12. An ADO Dataset object can hold more than one table.
- A. True
  - B. False
13. If I want to create a new SQL database, what options do I have?
- A. Create the DB in Server Explorer.
  - B. Add the .mdf file to my project.
  - C. Both A & B are correct
14. If I want to read a sequential file in VB, I must open the file for append first.
- A. True
  - B. False
15. Which of the following will make a number have a "\$" in front of it?
- A. FormatNumber(Total)
  - B. FormatDecimal(Total).
  - C. FormatCurrency(Total).
  - D. Format\$(Total).
  - E. None of the above

16. What does "btnFirst.PerformClick()" most likely do?

- A. It shows a message box telling the user to click the btnFirst button.
- B. It tells VB to end the program.
- C. It closes the active form.
- D. It makes VB execute the code in the btnFirst click event.
- E. It creates a new VB class called "PerformClick"

17. In this code, why do I use "ToString"?

```
lblTax.Text = salesTax.ToString
```

- A. Because I don't know what I am doing!
- B. It saves salesTax as string data so it will work better with a label control.
- C. It makes my program run faster.
- D. It saves memory in my computer.

18. How many arguments does the following expect?

```
Private Function DoTax(ByVal Quant As Integer, ByVal Price As Decimal) As Decimal
```

```
Return FormatNumber(Quant * Price * SALESTAX, 2)
```

```
End Function
```

- A. 1
- B. 2
- C. 3

19. Look at the following....

**Public Class Checkout**

```
Function DoTax(ByVal Quant As Integer, ByVal Price As Decimal, ByVal SALESTAX As Decimal) As Decimal
```

```
    Return FormatNumber(Quant * Price * SALESTAX, 2)
```

```
End Function
```

```
Function DoSubTotal(ByVal Quant As Integer, ByVal Price As Decimal) As Decimal
```

```
    Return FormatNumber(Quant * Price, 2)
```

```
End Function
```

**End Class**

How does the "outside world" see DoTax?

- A. As a property.
  - B. As a method.
  - C. As an event.
  - D. As an array.
  - E. As a function.
20. In #19, what type of data is returned by DoSubTotal?
- A. integer
  - B. short
  - C. decimal
  - D. string
  - E. single precision
21. In #19, "checkout" is a built-in VB function.
- A. True
  - B. False
22. A variable created at the module or class-level can be used or accessed any where in the form it was created in.
- A. True
  - B. False

23. Look at this. What must happen in order for the message box to appear?

```
If txtPin.Text.Trim = "" Then
    MessageBox.Show _
    ("Please enter your PIN", "Ron's ATM Service", MessageBoxButtons.OK,
    MessageBoxIcon.Exclamation)

    txtPin.Focus()
Else
    GetAccount()
End If
```

- A. The txtPin text box must have a number in it.
- B. The data must not be trimmed.
- C. The data has to be trimmed.
- D. The txtPin text box must be empty.

24. This code makes the object invisible.

```
txtPin.Enabled = False
```

- A. True
- B. False

25. What in the world does this code do?

```
lblNumItems.Text = "You purchased " & numItems & " items."
```

- A. I am including the actual number of items chosen into a string sentence.
- B. I am adding this sentence to a list box.
- C. It will display the sentence in a messagebox.
- D. All of these are true

26. What does the following code do?

```
Dim MyReader As New StreamReader(ProductsFile)
```

```
Dim LineOfText As String
```

```
LineOfText = MyReader.ReadLine
```

```
Do While LineOfText <> ""
```

```
    lbItems.Items.Add(LineOfText)
```

```
    LineOfText = MyReader.ReadLine
```

```
Loop
```

```
MyReader.Close()
```

- A. It reads an MS Access table
  - B. It reads a SQL table
  - C. It reads a random access file.
  - D. None of these
27. In #26, what do I use to read the file?
- A. The streamreader class from the .Net framework.
  - B. The MyReader class from the .Net framework.
  - C. The InBuf function from the System.Windows.Forms namespace.
  - D. None of these
28. Visual Studio .Net allows us to write programs in several languages. When you compile your application in VS, it is turned into
- A. machine code.
  - B. assembly language.
  - C. MS intermediate language.
  - D. a C++ application.
29. In a VB project, what does "Inherits System.Windows.Forms" mean?
- A. It tells VB where to get the specifications to make my new object.
  - B. My new object will be a clone of the original from the .Net framework.
  - C. I am using inheritance in my project.
  - D. All of these sound pretty good.
30. When I keep all the functionality of a section of code inside an object, I am using the concept of
- A. inheritance.
  - B. class inheritance.
  - C. form inheritance.
  - D. encapsulation.
  - E. concatenation.

31. Look at this code:

```
Property Quantity() As Integer
    Get
        Quantity = m_intQuantity
    End Get

    Set(ByVal Value As Integer)
        If Value >= 0 Then
            m_intQuantity = Value
        End If
    End Set
End Property
```

If I want to change the value of the property, which part will execute?

- A. The Get block.
  - B. The Set block
  - C. The Quantity block
  - D. None of these
32. Look at #31 again. From what you know about creating properties, what would you assume m\_intQuantity is?
- A. An enumeration
  - B. A module-level or field variable
  - C. A static variable
  - D. A constant
33. If you pass a variable to a procedure using "ByVal", VB creates a copy of the variable and does not alter the original value.
- A. True
  - B. False
34. The main difference between a VB function and a VB subroutine is that a subroutine **always** returns a result.
- A. True
  - B. False

35. The connection object is used to actually get the records we want from a SQL database.
- A. True
  - B. False
36. In VB, what data types can I use to represent currency?
- A. Currency, integer, double.
  - B. Double, single, currency.
  - C. Single, double, decimal.
  - D. Single, short, double, float.
  - E. Double, smallmoney, single, tinymoney.
37. What does it look like I am doing in this code?
- ```

lstProducts.Items.Add("Birds      49.95      bird.jpg")
lstProducts.Items.Add("Horse     649.95     colt.jpg")
lstProducts.Items.Add("Fish       4.95      fish.jpg")
lstProducts.Items.Add("Cats      29.95     kitten.jpg")
lstProducts.Items.Add("Puppy     29.95     puppy.jpg")

```
- A. Filling a text box full of stuff.
  - B. Adding a bunch of photos to a list box.
  - C. Adding items, prices, and the name of a photo file to a list box.
  - D. None of these sound so good
38. Lets say I have a textbox so the user can type in their PIN#. How do I disguise or hide the number they are typing?
- A. Convert the text box into a Masked-Edit control then change the text to a "\*".
  - B. Change the Enable.Text property to "\*".
  - C. Change the **PasswordChar** property of the Form to a "\*".
  - D. Change the **PasswordChar** property of the textbox to a "\*".

The End