1. a) Explain the process of managed execution in .NET environment.
b) What are the advantages of using ADO.NET over the classic ADO?
c) Explain the various types of access modifiers and the restrictions on the use of each in the context of visual programming.
d) Explain the data types that are supported by VB.NET.
e) Explain the inheritance.
f) Explain the types of server control events and sequencing by associating each with specific server controls.
g) Explain the web server controls that have been specifically meant to be used with data sources.

(7x4)

2. a) What do you understand by Datasets? How do they differ from RecordSets or DataReaders?
b) What do you understand by Structured Exception Handling? Explain five key words that are commonly used in Exception handling.
c) Give the difference between cookies, sessions and application objects of ASP.NET.

(6+6+6)

3. a) Write appropriate event oriented procedures for a VB.NET form frmMovies that contains Command Buttons: cmdAdd and cmdRemove. Besides it also contains List box: lstMovies and also a text box: txtMovie. Initially, the form at run time displays five movies of your choice. Another movie can be added to this list through text box and by clicking at a command button cmdAdd and a selected movie of the list box can be removed by clicking a command button cmdRemove.
b) Differentiate between Console Applications and windows applications. When is it appropriate to use console applications?

(9+9)

4. a) Write a series of event oriented procedure in VB.NET to generate and display seven days of week corresponding to dates that begin with 15-Dec-11 in a list control, List1 that is contained by a form, Form1. The List1 should display date and day of the week, duly separated by a space.
b) Describe the components of .NET data Provider along with their functionality.

(9+9)
5. Describe the effect of executing the following Six statement Sets of Statements:
   a) TextBox.Text="Hello"
      Clipboard.SetDataObject(TextBox.SelectedText)
   i) Dim randomNum As New Random()
      TextBox.Text=chr(randomNum.Next(32,127))
   ii) Dim randomNum As New Random()
       Dim suit() As String={'',"Hearts","clubs","Diamonds","Spades"}
       Dim denomination() As String={'','2','3','4','5','6','7','8','9','10','Jack','Queen','King','Ace'}
       TextBox.Text=denomination(randomNum.Next(1,14)) & " of " & _
                   suit(randomNum.Next(1,5))
   iii) Dim randomNum As New Random()
   b) Determine the output produced by each set of lines (of code) given below:
      i) Dim allVowelWords(), line As String
         Line="abstemious,dialogue,facetious,sequoia,education"
         allVowelWords = line.Split("","c"
         TextBox.Text=allVowelWords(2)
      ii) Dim orderWords() As String          ' Letters in alphabetical order
          Dim line As String = "bijoux,biopsy,almost"
          orderWords = line.Split("","c"
          TextBox.Text=orderWords(orderWords.GetUpperBound(0)).Trim
      iii) Dim notes() As String={'A','B','C','D','E','F' ,"G"
             TextBox.Text=Join(notes,"","c"
   c) Describe the distinct features of Web Site administration Tool.

6. a) What do you understand by Overloading, Overriding and Shadowing? Explain the modifiers
    that are used to control properties and method of overridden.
    b) What is meant by Visual inheritance? How is this concept useful in Visual Basic.NET
    programming? Explain with the help of suitable example.

7. a) What specific tasks are performed by ASP.NET configuration system? Explain.
    b) Write short notes on the followings:
       i) Rich Server Controls
       ii) Inheritance modifiers
       iii) Default Constructor