B3.5-R4: VISUAL PROGRAMMING

NOTE:

1.	Answer question 1 and any FOUR from questions 2 to 7.
2.	Parts of the same question should be answered together and in the same sequence.

Time: 3 Hours **Total Marks: 100**

1.

a)   What is an Assembly? Explain different types of Assemblies?

b)   What is the difference between .EXE and .DLL files?

c)   Explain the usages of the Command object in ADO.NET.

d)   What are the decision structures available in Visual Basics?

e)   Why there is a need of State Management? How many ways are there to maintain a state in .NET?

f)   How can you differentiate CSS and Themes?

g)   Discuss the role of the JIT compiler in .NET Framework.

(7x4)

2.

a)   State the difference between Common Language Specification (CLS) and Common Type System (CTS)?

b)   What is inheritance? How can we achieve it using VB.NET?

c)   Write a code to insert values of checkbox and radio button into SQL database through vb.net form.

(6+6+6)

3.

a)   What is the code-behind feature in ASP.NET?

b)   Describe the disconnected architecture of ADO.NET's data access model.

c)   What is garbage collector in .Net framework program? How to handle Garbage collection in VB.Net?

(6+6+6)

4.

a)   Write a console application to count number of digits in a given string.

b)   Explain the AdRotator Control in ASP.NET.

c)   Explain page life cycle with all phases in ASP.NET.

(6+6+6)

5.

a)   What is difference between Finalize() and Dispose() methods in .NET?

b)   What is the difference between Server.Transfer and Response.Redirect? Why would you choose one over the other?

c)   What are Master Pages in .NET? What are the different ways to attach Pages to a Master? How it is possible to access Master Page Controls from Content Page?

(6+6+6)

6.

a) What is Global Assembly Cache? How to install an assembly in the Global Assembly Cache in Visual Basic .NET?

b) Why to use Visual Inheritance? How to override base form methods in inherited form Visual Inheritance?

(9+9)

7.

a) What are Cookies? What are the advantages of cookies? Write code to implement cookie in VB.NET.

b) Write short notes on the followings:

    i)   Data Reader

    ii)   Parameterized Constructor

    iii)   Rich Server Controls

(6+[3x4])