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)   How is .NET able to support multiple languages?
b)   What is Method Overriding? Explain with an example.
c)   What is web.config? How many web.config files can be allowed to be used in an application?
d)   Is VB.NET object oriented? How can we achieve inheritance in VB.NET?
e)   What are Value Types and Reference Types in Microsoft .Net Framework? Is string a value type or a reference type?
f)   What are the different types of Assembly in Microsoft .Net Framework?
g)   What is Garbage Collection? Can we forcefully do the Garbage collection in .Net?

(7x4)

2.
a)   Explain the features of DataSet. What is the difference between DataSet and DataReader? Which one is slower?
b)   What is the difference between ASP and ASP.NET?
c)   What are the benefits of ADO.NET? Which namespace do we use to connect to SQL Server in VB.NET? Where do you store the connection string?

(6+6+6)

3.
a)   What is URL rewriting? How session management can be implemented by URL rewriting in ASP.NET?
b)   How many types of validation controls are provided by ASP.NET?

(9+9)

4.
a)   What is FINALIZE method? Discuss with example code block.
b)   What is the difference between listbox and combobox? Explain with an example.
c)   What is QueryString and what are its benefits and limitations?
d)   What is Impersonation? How machine.config is different from web.config?

(4+4+4+6)

5.
a)   What is the use of directives? Explain with example. Which directive is mandatory in page control?
b)   What is DataGrid? Explain how we can bind a datagrid to SQL Server database in ASP.NET.
c)   What are web services? How are web services implemented in .Net? What is the namespace for creating the web services?

(6+6+6)

6.
a)   Create a Bio Data form with a Submit button in VB.NET that enters the particulars of an individual like Name, Address, Age, Gender, Educational Qualifications, Hobbies etc. Validate to check that the age is not be less than 18 years.
b)   Explain try/catch/finally block of exception handling with an example. Why is exception handling important for an application?

(9+9)

7.

a) What is theme? How theme can create visual impact on web site? Discuss with example.

b) Discuss the role of cookies in application state management in ASP.NET. Discuss with appropriate example.

c) What are the differences between Redirect and Server Transfer?

(8+6+4)