

## 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 the difference between System Exceptions and Application Exceptions?
- b) What is the namespace in which .NET have the data functionality classes?
- c) What is the use of "MustInherit" keyword in VB.NET?
- d) What is AJAX? Give the advantages of AJAX?
- e) How do you set the Authentication mode in the ASP.NET application?
- f) What is the difference between Web.Config and Machine.Config?
- g) What are the advantages of using ADO.NET over the classic ADO?

(7x4)

2.

- a) What is Query String? What are the benefits and limitations of using Query Strings?
- b) How can we achieve inheritance in VB.NET? Explain with an example.
- c) Write a code to insert a TextBox value into SQL database using VB.NET coding.

(6+6+6)

3.

- a) What is the difference between Datagrid, Datalist and Repeater? From performance point of view how do they rate? How can we format data inside DataGrid?
- b) What is the use of CSS in theme? Explain inline, internal, external CSS with example?

(9+9)

4.

- a) What is JIT and how it works?
- b) What is error log? Explain event log in .NET?
- c) Why don't we have multiple inheritances in .NET?
- d) What is the different accessibility levels defined in .NET? Can you prevent a class from overriding?

(4+4+4+6)

5.

- a) What is a Master Page? How do you create Master Page? Can Master Page be nested?
- b) What are indexes? What is the difference between clustered and non-clustered indexes?
- c) How can you identify whether or not any changes are made to the DataSet object since it was last loaded?

(6+6+6)

6.

- a) Write a simple console application to delete a file in a folder whose create date is older than 2 months.
- b) What do you understand by State Management? How many ways are there to maintain a state in .NET?

(9+9)

7.

- a) What are Events? Do events have return type? Can events have access modifiers?
- b) Explain how authorization works in ASP.NET.
- c) What is XML? Is XML case-sensitive? If XML does not have a closing tag, will it work?
- d) Explain with suitable example the basic features of Object Oriented Programming using VB.NET?

(6+4+4+4)