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)