(2¹/₂ Hours)

[Total Marks: 75]

- N.B.: 1) All questions are compulsory.
 - 2) Figures to the right indicate marks.
 - 3) Illustrations, in-depth answers and diagrams will be appreciated.
 - 4) Mixing of sub-questions is not allowed.

Q.1 Attempt All (Each of 5Marks)

(a) Multiple Choice Questions

- 1) The regular expression represents any whitespace character. a. $\$ b. $\$ c. $\$ w d. $\$ W
- 2) What is the last event of the page lifecycle?
 - a. Page_Load b. Validate
 - c. Page_Unload d. Page_Init
- 3) Which of the following is not a part of the ConnectionString in the SqlConnection object?
 - a. Integrated Security b. Data Source
 - c. Connection Status d. Both a and b
- 4) Identify the underlying html element of LABEL control
 a. <div>
 b.
 c. <label>
 d.
- 5) The most commonly used State Management technique, that is inserted at the end of URL, is ______

a.	CrossPage Posting	b. Session State
c.	QueryString	d. Cookies

(b) Fill in the blanks with appropriate keywords by selecting the correct option from the (5) given pool of options.

(App_Code, skin, decimal, Bin, Tick, UpdateProgress, Interval, double, ProgressBar)

- 1) The______folder in ASP.NET contains source code files that are dynamically compiled for use in your application.
- 2) The_____datatype supports 128-bit fixed-point fractional number that supports up to 28 significant digits.
- 3) The_____event of a Timer is triggered when the maximum number of milliseconds are elapsed.
- 4) Atleast one______file should be contained in the Themes folder.
- 5) The_____control allows you to show a message when an AJAX based page is being updated.
- (c) Answer the following in 1-2 lines:
 - 1) What is MSIL?
 - 2) Give the syntax of declaring as one dimensional integer array in C# and initialize its elements to 1,2,3,4,5.
 - 3) Give the significance of GridView Control.
 - 4) State any two LINQ data providers.
 - 5) What is ViewState?

(15)

(5)

(5)

Q.2 Attempt the following (Any THREE)

- (a) State and explain various components of .Net framework.
- (b) Explain the working of foreach loop in C# and provide example.
- (c) Write a note on assemblies in .NET.
- (d) Explain various ASP.NET file types.
- (e) Briefly describe the Partial Classes and their syntax with a suitable example.
- (f) State and explain the important events of Global.asax file.

Q.3 Attempt the following (Any THREE)

- (a) Write a note on ASP.Net Page Life Cycle.
- (b) Explain at least 5 generic properties of web control.
- (c) With the help of an example, explain how data can be stored and retrieved from a session variable.
- (d) What is AdRotator? Write XML file which is created for the AdRotator Control.
- (e) Explain the SiteMapPath control in detail.
- (f) What is the use of MasterPages in ASP.NET? How a Content page can be added to a Master Page.

Q. 4 Attempt the following (Any THREE)

- (a) Write a brief note on the Data Provider Model? Explain various ADO.NET namespaces.
- (b) Write the difference between Single-Value Data Binding and Multi-Value Data Binding in ADO.NET.
- (c) Write C# function to create an XML file given below using ASP.net:-<college>

<student id='123'>

<name>Madhuri Talekar</name> <marks>44</marks>

</student>

<student id='123'>

<name>Juhi Mehta</name>

<marks>49</marks>

</student>

</college>

- (d) Write a short note on Caching.
- (e) Explain the concept of Partial Refreshes with respect to AJAX in ASP.NET.
- (f) Write a short note on SqlCommand class in ADO.NET.

Q. 5 Attempt the following (Any THREE)

- (a) Give the structure of web.config file. Also state its advantages.
- (b) Differentiate between Value Types and Reference Types.
- (c) Explain the following XML classes:
 - i. XmlTextWriter
 - ii. XmlTextReader
- (d) Explain the important properties of the BaseValidator class.
- (e) What is LINQ? Explain the syntax of LINQ giving suitable examples.

(15)

(15)