Q.P. CODE: 36294

(Time: 2 ½ 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) **(15M)**

(a) Multiple Choice Questions **(5M)**

1) By using which of the following attribute, HTML elements are transformed to HTML server controls?
   a. runat="client"
   b. runat="browser"
   c. runat="HTML"
   d. runat="server"

2) What is the last event of the page lifecycle?
   a. Page_Load
   b. Validate
   c. Page_Unload
   d. Page_Init

3) Which object can help you maintain data across all users?
   a. Application object
   b. Session object
   c. Response object
   d. Server object

4) 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

5) On which of the following web servers are ASP.NET websites hosted?
   a. Apache Tomcat
   b. Internet Information Services (IIS)
   c. Glassfish
   d. Website Service Server

(b) Fill in the blanks **(5M)**

(Use these pool of options - Partial Class, client-side Language Interoperability, AdRotator, assembly**)**

1) _____ is the basic building block in .NET.

2) _____ is the ability of an application to interact with another application written in a different programming language.

3) Using _____ we can create a class definition in multiple files but it will be compiled as one class.

Page **1** of **3**

4) _____ web server control is used to display advertisements in ASP.NET a webpage.

5) Cookies are _____ state maintenance

(c) **Answer in 1 – 2 sentences** (5M)

1) Which are the two properties in every ASP.NET Validation control?
2) List the main components of .NET Framework.
3) What is the use of the property ActiveViewIndex of the MultiView control?
4) What is ADO.NET?
5) What are the common pitfalls with Caching data?

Q. 2   Attempt the following (Any THREE) (15M)

(a) What is CLR? List and explain the features of CLR.

(b) Explain with an example the foreach loop in C#.

(c) Write a note on assemblies in .NET.

(d) List and explain the different type of File types in an ASP.NET web application project.

(e) Briefly describe the Partial Classes in NET. Demonstrate with an example.

(f) What is a Global.asax file in ASP.NET? Explain the different events in it.

Q. 3   Attempt the following (Any THREE) (15M)

(a) Write a note on ASP.Net Page Life Cycle.

(b) Which are different validation controls in ASP.NET? Explain any 2 with an example.

(c) List and explain the client-side state management objects in an ASP.NET website.

(d) What is AdRotator? Explain in brief about the Advertisement file used in the AdRotator control.

(e) Explain the SiteMapPath control in detail.

(f) How to implement views in a Multiview control. Write syntax for the below scenario:

Implement 2 Views in a MultiView control.

View 1 should have one Label and one Button control and View 2 should have 2 TextBox controls and two Button controls. Also demonstrate how to switch between View 1 and View 2.

Q. 4   Attempt the following (Any THREE) (15M)

(a) Write a brief note on the Data Provider Model?

(b) Write the difference between Single-Value Data Binding and Multi-Value Data Binding in ADO.NET.

(c) What is the use of GridView data control? Write a code to display all the records from the Employee in the GridView control.

(d) What are the two types of Caching? Explain anyone with an example.

(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)** **(15M)**

(a) What do you mean by Value Type and Reference Type? Give an example for each.

(b) What is the concept of master pages and content pages in ASP.NET? Demonstrate how to connect them with an example.

(c) Explain the following XML classes:
   a. XmlTextWriter
   b. XmlTextReader

(d) Write a note on HtmlInput class.

(e) Explain the concept of Timed Refreshes with respect to AJAX in ASP.NET.

****