

(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 the following

(a) Select the correct alternative

(15M)

(5M)

- (i) _____ file apply settings to all ASP.NET applications
 - a. web.config
 - b. machine.config
 - c. global.asax file
 - d. application object
- (ii) _____ is the file extension of web service in ASP.NET?
 - a. .ascx
 - b. .asmx
 - c. .aspx
 - d. .docx
- (iii) _____ is a property common in every validation control.
 - a. ValidationExpression
 - b. ValueToCompare
 - c. ControlToCompare
 - d. ControlToValidate
- (iv) _____ is the last event of web page life cycle?
 - a. Page_Load
 - b. Page_LoadComplete
 - c. Page_Finish
 - d. Page_Unload
- (v) _____ is used to kill a users session explicitly.
 - a. Session.Close()
 - b. Session.End()
 - c. Session.Abandon()
 - d. Session.Discard()

(b) Fill in the blanks with help of the options given in the pool below:

(5M)

(Partial, Session, Page, App_Code, Application, Restricted, App_Data, EnableViewState)

- (i) The _____ directory contains source code files that are dynamically compiled for use in your application.
- (ii) The _____ collection of a Page holds information that's shared between all users in a website.
- (iii) The _____ property when set to false disables the automatic state management for this control.
- (iv) _____ classes gives you the ability to split a single class into more than one C# source code (.cs) file.
- (v) Every web page is a custom class that inherits from _____ class.

(c) Answer the following in one or two lines:

(5M)

- (i) Give the syntax of Page directive.
- (ii) What is a namespace in C#?
- (iii) State the two types of Data Binding supported by ASP.NET.
- (iv) What is Boxing in C#?
- (v) What is LINQ?

Q. 2 Attempt the following (Any THREE)

(15M)

- (a) State the different types of ASP .NET files.
- (b) Write a note on Global.asax file.
- (c) Give syntax of foreach loop in C#. Explain with example.

- (d) Explain the structure of web.config file.
- (e) Explain the terms ViewState and AutoPostBack.
- (f) What are HTML Server Controls? What are their features?

Q. 3 Attempt the following (Any THREE)

(15M)

- (a) Write a note on the Page Lifecycle.
- (b) State and explain the important properties of any two Validator controls.
- (c) Write a program wherein you restrict a user to not select a national holiday.
- (d) What is a cookie? How to add and retrieve value from a cookie? Give example.
- (e) Write a short note on the SiteMapPath Control.
- (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)

(15M)

- (a) Explain any two controls of ASP.NET AJAX Toolkit.
- (b) Write a short note on Caching.
- (c) State the important methods of XMLTextWriter class.
- (d) What do you mean by Data provider in ADO.NET? Explain any two types of classes from it.
- (e) State XML's hidden role in .NET.
- (f) Explain sorting and paging with respect to GridView control of ASP.NET

Q. 5 Attempt the following (Any THREE)

(15M)

- (a) Write a short note on .NET framework.
 - (b) State and explain the contents of the advertisement file.
 - (c) Explain the QueryString property of Request object.
 - (d) Write a short note on SqlConnection class.
 - (e) Explain the Standard Query operators "Select", "From", "orderby" and "Where" in LINQ.
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