[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 (15M)Select the correct alternative (5M)(a) __ file apply settings to all ASP.NET applications a. web.config b. machine.config d. application object c. global.asax file (ii) _____ is the file extension of web service in ASP.NET? a. .ascx b. .asmx d. .docx c. .aspx is a property common in every validation control. (iii) a. ValidationExpression b. ValueToCompare d. ControlToValidate c. ControlToCompare is the last event of web page life cycle? (iv) a. Page_Load b. Page_LoadComplete c. Page_Finish d. Page_Unload is used to kill a users session explicitly. (v) b. Session.End() a. Session.Close() c. Session. Abondon() d. Session.Discard() Fill in the blanks with help of the options given in the pool below: (b) (5M)(Partial, Session, Page, App_Code, Application, Restricted, App_Data, EnableViewState) directory contains source code files that are dynamically compiled for use in your application. The collection of a Page holds information that's shared (ii) between all users in a website. (iii) The _____ property when set to false disables the automatic state management for this control. classes gives you the ability to split a single class into more (iv) than one C# source code (.cs) file. Every web page is a custom class that inherits from _____ class. (c) Answer the following in one or two lines: (5M)Give the syntax of Page directive. (i) (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? 0.2 Attempt the following (Any THREE) (15M)State the different types of ASP .NET files. (a) Write a note on Global.asax file. (b) Give syntax of foreach loop in C#. Explain with example. (c)

(Time: 2 ½ Hours)

- (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.