Paper / Subject Code: 53703 / Advanced Web Programming

(2½ Hours)

[Total	Marks:	75

N. E	3.: (1) All questions are compulsory.	
	(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made.	
	(3) Answers to the <u>same question</u> must be <u>written together</u> .	
	(4) Numbers to the <u>right</u> indicate <u>marks</u> .	
	(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
	(6) Use of Non-programmable calculators is allowed.	
	Cal Callendings	15
1.	Attempt <u>any three</u> of the following:	
a.	Explain foreach loop with suitable example.	
b.	Distinguish between interface and abstract classes.	
c.	What is namespace? Describe the System namespace.	
d.	What is an assembly? Explain the difference between public and private assembly. What is an assembly? Explain the difference between public and private assembly.	
e.	Write a sample C# program to demonstrate class, object and method call. Use comments	
	wherever require.	
f.	Define the accessibility modifiers-public, private, protected, internal, and protected	
	internal.	
		15
2.	Attempt any three of the following:	13
a.	What is postback? Explain IsPostBack property with suitable example.	
b.	List and describe the various file types used in an ASP.NET application.	
c.	What is an event? How is an event handler added?	
d.	Write a short note on List controls in ASP.NET.	
e.	Explain the need of user control. How is it created and used?	
f.	What is the purpose of validation controls? List and explain the use of validation	
	controls available in ASP.NET.	
		15
3.	Attempt <u>any three</u> of the following:	13
a.	Describe the use of multiple catch statements in exception handling using example.	
b.	What is QueryString? How to send a name and marks of a student from one page to	
	another using QueryString?	
c.	Explain the events in global.asax file with respect to state management.	
d.	How the connection between the content page and the master page is established?	
e.	What is the theme? Explain how to create and use a theme on a website.	
f.	What is URL mapping? How is URL mapping and routing implemented in ASP.NET?	
		15
4.	Attempt <u>any three</u> of the following:	15
a	Describe the SqlConnection class with an example.	
b	Differentiate between DataSet and DataReader.	
C	Write c# code to insert data in database table. Write comments wherever required.	
d	What is use of data source control? Explain various types of data sources in ASP.NET.	
e	Write a code to display data from a table named Students(RollNo, Name, Marks) and	
	display on grid view control when page is loaded.	
f	Describe (i) ExecuteNonQuery, (ii) ExecuteScalar, and (iii) ExecuteReader.	

[Turn over...

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5. Attempt *any three* of the following:

a. Write a code to save employee data as empId, empName, empDept, and empDesignation data in an XML file.

15

b. What is XML? List and explain the various XML classes.

- c. What do you mean by "authentication"? Describe its various types of authentication..
- d. Explain the use of UpdateProgress control in AJAX.
- e. What is use of timer control? Write the steps with appropriate code to create an application to display real-time timing (clock) on an asp.net web page
- f. What are the benefits using Ajax? Explain UpdatePanel and ScriptManager.