- N. B.: (1) All questions are compulsory.
- (2) Make suitable assumptions wherever necessary and state the assumptions made.
- (3) Answers to the same question must be written together.
- (4) Numbers to the **right** indicate **marks**.
- (5) Draw neat labelled diagrams wherever necessary.
- (6) Use of Non-programmable calculators is allowed.

1.Attempt *any two* of the following

- **a.** What is .NET Framework? What is in the .net Framework?
- **b.** What is Method overloading? What are steps involved for selection of method in method overloading?
- c. What is difference between overriding method and hiding method?
- **d.** Write C# program to do the following: Initialise an array A with 10 element. Initialize an array B with 7 elements. Divide each element of array A with each element of array B that is a[0]/b[0], a[1]/b[2] etc. Implement the same to handle Divide by zero error and Index out of bound error.

2.Attempt *any two* of the following

- **a.** Delegates in C# are used for Event Handling. Justify this statement with a relevant example program.
- **b.** What is the significance of Assemblies in .NET?
- **c.** List and explain the use of any five namespaces in C#.
- **d.** What is need of CSS in ASP.NET? explain the different types of CSS in ASP.NET.

3.Attempt <u>any two</u> of the following

- **a.** Explain the text box web server control. List and explain any four text box attributes.
- **b.** What is the difference between check box and radio button control? What are the common attributes associated with this control.
- c. Explain any five properties of List box and Drop-down list controls.
- d. What is the difference between .aspx file and .cs file? Explain with an example for each.

4.Attempt *any two* of the following

- **a.** In a web form the details of an employee is filled in after he/she is employed in the company. In the design there is text box to fill the first name, a text box to fill the last name, a text box to fill the surname, a text box to enteremail address, a text box to enter the email address again to confirm the same, a text box to fill the age. What are the validation controls that have to be added for each feild in the form.
- **b.** Explain the role of view state and session state in ASP.NET.
- **c.** What is significance of Master pages in ASP.NET? what is the name given to pages other than master pages? Explain in detail.
- d. Explain Menu and Treeview site navigation control.

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5.Attempt *any two* of the following

- **a.** What is the use of GridView control in ASP.NET?
- **b.** Explain formView control.
- c. Explain the term authentication with respect to ASP.NET security.
- **d.** What is the difference between authorisation and impersonation in terms of security in ASP.NET.

6.Attempt *any two* of the following

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- **a.** Explain the LINQ query syntax with an example query.
- **b.** Explain the terms Take, Skip, TakeWhile, First, FirstOrDefault, Last, LastOrDefault with respect to LINQ.
- c. Explain the use of UpdateProgress Control and Timer Control in AJAX.
- **d.** What are the different types of selectors present in JQuery? Explain.

