**[Time: $2\frac{1}{2}$  Hours]**                                                                        **[ Marks : 75]**

Please check whether you have got the right question paper.

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

**1.          Attempt _any two_ of the following:**                                          **10**
a.    What is boxing and unboxing? How it is achieved?
b.    What is type conversion? Explain implicit and explicit type conversion with suitable example.
c.    What is user defined exception? Explain with Syntax.
d.    Differentiate between abstract class and interface.

**2.          Attempt _any two_ of the following:**                                          **10**
a.    What is the difference between private assembly and shared assembly?
b.    Short note on Just-in-Time compiler.
c.    What is event? What are the differences between delegate and event?
d.    What is garbage collection? Explain three types of generations in garbage collection.

**3.          Attempt _any two_ of the following**                                          **10**
a.    Differentiate between HTML server controls and web server controls.
b.    Explain the following properties/events of checkbox control.
i)          ID
ii)         AccessKey
iii)        Text
iv)        Checked
v)         CheckedChanged()
c.    What is the difference between inline code and code behind in asp.net?
d.    Explain the implicit and explicit conversion of data types with examples

**4.          Attempt _any two_ of the following:**                                          **10**
a.    What is ViewState? Where is  the ViewState is stored after the page postback?
b.    Explain the relationship between master page and content page.
c.    Define the steps to set up validation control in an ASP.NET web page.
d.    Explain Response.Redirect() and Server.Transfer() methods in ASP.NET.

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**5.**        **Attempt _any two_ of the following**                                                                10
   **a.** Explain the various authentication mechanisms in ASP.NET.
   **b.** What is ListView control? List the features provided by ListView control.
   **c.** Differentiate between DataSet() and DataReaderQ.
   **d.** Explain the properties and methods of Command Object

**6.**        **Attempt _any two_ of the following**                                                                10
   **a.** What role does the ScriptManager play? Explain the UpdatePanel Control.
   **b.** Explain the jQuery syntax and Document.Ready Event with the example.
   **c.** Explain DOM manipulation methods in jQuery.
   **d.** Write and explain the basic syntax of a LINQ query in C#.

**7.**        **Attempt _any three_ of the following**                                                              15
   **a.** Explain foreach loop? How it is different from for loop?
   **b.** Explain working with CSS using Visual Studio Developer.
   **c.** What are the event handlers that we can have in global.asax file?
   **d.** What is website navigation? Explain structure of web.sitemap file with suitable example
   **e.** Explain DataAdapter with its properties and methods.
   **f.** What is AJAX? What are the advantages and disadvantages of AJAX?

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