Q.P. Code : 23206

(Time: $2\frac{1}{2}$ hours)

Total Marks: 75

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 labeled diagrams** wherever **necessary**.
   (6) Use of **Non-programmable** calculators is **allowed**.

1.   Attempt _any two_ of the following: **10**
a.   What is an exception? Explain exception handling in C#.
b.   What is polymorphism? Explain runtime polymorphism in C#.
c.   What is the difference between for loop and foreach loop?
d.   Write short note on Common Language Runtime (CLR) in .NET.

2.   Attempt _any two_ of the following: **10**
a.   Differentiate between private assembly and shared assembly.
b.   Explain how garbage collection works in .NET.
c.   What is selector in CSS? Explain various types CSS selectors.
d.   What is .NET framework? Explain various components of .NET framework 4.0.

3.   Attempt _any two_ of the following: **10**
a.   List and explain the major events in global.asax file.
b.   What is the code behind and inline code?
c.   Write ASP.NET code to display selected elements from the CheckBoxList on a Label control.
     Elements on the label must be separated by a whitespace.
d.   Explain following properties of ListBox control
     (i) AutoPostBack   (ii) Items

4.   Attempt _any two_ of the following: **10**
a.   Write necessary properties which are common for all validation controls.
b.   What is ViewState? How it works in ASP.NET?
c.   Explain TreeView control in ASP.NET.
d.   Write ASP.NET code to send data entered in two textboxes from one web page to another
     web page. Display the data on two separate labels.

5.   Attempt _any two_ of the following: **10**
a.   What are the authentication modes in ASP.NET for security?
b.   What is the difference between ExecuteScalar and ExecuteNonQuery?
c.   Write a code to insert and update data into a SqlServer database from an ASP.NET web
     page.
d.   Explain DataAdapter class in ADO.NET?

6.   Attempt _any two_ of the following: **10**
a.   Write the basic syntax of a LINQ query in C#.
b.   What are the benefits using Ajax? Explain UpdateProgress control in Ajax.
c.   Write a code to display all the number in array greater than 10 using LINQ.
d.   Explain the use of document.ready() function in jQuery.

[TURN OVER]

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7.   **Attempt *any three* of the following:**   **15**
a.   Explain switch statement. What is fallthrough in switch? Is fallthrough permitted in C#?
b.   How to create and use external style sheet using visual studio developer?
c.   Explain following two web server controls
     (i) LinkButton (ii) ImageButton
d.   What are cookies? Explain various properties of HttpCookie class.
e.   What is the authentication and authorization in ASP.NET?
f.   Write jQuery code to demonstrate the use of hide() and slideUp() functions on <p> element.

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