

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.

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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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