Q.P. Code : 363901

(2½ 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 flow control? Explain use of break and continue statements in loop.
b. What is namespace? How to create namespace and its alias?
c. Differentiate between function overloading and function overriding.
d. Explain try, catch and finally blocks in exception handling with suitable example.

2. Attempt *any two* of the following: 10
a. What is an assembly? Explain different components of assembly.
b. What is garbage collection? How it works?
c. Explain the steps in ASP.NET page life cycle.
d. What is CSS selector? Explain different selectors present in CSS.

3. Attempt *any two* of the following: 10
a. What is the difference between inline code and code behind?
b. Explain CustomValidation control with example.
c. Explain following properties supported by ListBox control
    (i) SelectedIndex   (ii) SelectedValue   (iii) Rows
    (iv) SelectionMode   (v) SelectedItes
d. What is web.config file? Explain <customErrors> and <connectionStrings> tags in web.config file.

4. Attempt *any two* of the following: 10
a. What is state management? Explain QueryString with example.
b. Why UrlEncode() and UrlDecode() methods are used in ASP.NET? Explain.
c. What is sitemap? Explain TreeView control.
d. Explain CustomValidator control with example.

5. Attempt *any two* of the following: 10
a. What is data-bound control? Explain GridView control with example.
b. Differentiate between DataSet and DataReader objects.
c. Draw and explain the architecture of ADO.NET in brief.
d. What is impersonation in ASP.NET? Explain windows authentication.

6. Attempt *any two* of the following: 10
a. Explain the syntax for query expression in LINQ with example.
b. What is jQuery selector? Write some examples.
c. Explain Timer and UpdatePanel controls.
d. What is LINQ? What are advantages and disadvantages of LINQ?

TURN OVER

7. **Attempt _any three_ of the following:**   15
   a. What is constructor? Explain parameterized constructor with suitable example.
   b. What is delegate? Explain the steps to implement delegates in C#.NET.
   c. Explain following properties
       (i)   AutoPostBack
       (ii)   AutoEventWiredUp
   d. Explain the relationship between master page and its content page with example.
   e. Explain SqlDataAdapter and SqlConnection objects in ADO.NET.
   f. What are different types of operators in LINQ?