

(2½ hours)

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

- List and explain the services provided by Common Language Run-time (CLR).
- "C# is modern, type-safe, versionable and inter-operable language". Justify.
- Write a note on abstract class in C#.
- Explain with example any five methods of String.

2. Attempt **any two** of the following: 10

- What are the different types of generic collections in C#?
- Distinguish between 'is' operator and 'as' operators.
- List and explain the steps to implement delegates in C#.
- What is collection? Explain HashTable collection.

3. Attempt **any two** of the following: 10

- Explain ASP.NET page structure.
- What is state management? Explain ViewState state management.
- Write a short note on global.asax file.
- Explain following properties and methods of RadioButton control.

4. Attempt **any two** of the following: 10

- What is query string in ASP.NET? Explain QueryString with example.
- Explain TreeView control with web.sitemap file in ASP.NET
- Explain CompareValidator control in ASP.NET with required properties.
- Write a short note on master page in ASP.NET.

5. Attempt **any two** of the following: 10

- Explain ADO.NET object model with help of suitable diagram.
- Explain connection string for SQLSever database.
- What is DataSet? Write a sample code to fill DataSet using DataAdapter.
- How forms authentication is implemented in ASP.NET?

6. Attempt **any two** of the following: 10

- Write and explain LINQ query syntax in brief.
- What is AJAX? List the advantages and disadvantage of AJAX.
- Create a List data source with minimum five list items (strings). Write LINQ query expression to display the strings containing word "Mumbai".
- Name some of the methods of JQuery used to provide effects

7. Attempt any three of the following:
- a. Write a program to demonstrate function overriding.
 - b. Explain working with CSS using Visual Studio Developer.
 - c. Explain the work of session state in ASP.NET.
 - d. Why UriEncode() and UriDecode() methods are used in ASP.NET?
 - e. Explain ExecuteReader, ExecuteNonQuery methods of Command object.
 - f. List and explain various jQuery selectors.
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