

(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**

- Explain .NET framework 4.0 with diagram in detail.
- What is CLR? Explain the role of CLR in .NET framework.
- Explain the features of static member and static function.
- Explain with suitable example about sealed class and method.

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

- Explain the concept of private and shared assembly.
- What is namespace? Explain System namespace.
- Explain ASP.NET page life cycle.
- What is Garabage collector? Explain how it is implemented.

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

- Explain the usage of button control with suitable example.
- Explain the use of web.config and global.asx files in ASP.NET application.
- What is the difference between Label and Link Label?
- Explain any two ASP.NET server control.

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

- Explain Validation controls available in ASP.NET.
- Write a note on state management in ASP .NET.
- Explain the work of session state in ASP.NET.
- Explain any two Site Navigation Controls in ASP.NET.

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

- Explain ADO .NET object model with help of suitable diagram.
- Explain in brief the Data Bound Controls.
- Explain in brief about an authentication and authorization.
- Differentiate between DataSet and DataReader.

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

- What is LINQ? Give its advantages.
- Explain the working of AJAX.
- Explain the syntax of jQuery with the example.
- List and explain jQuery selectors.

7. Attempt any three of the following:

- a. Explain the concept of boxing and unboxing.
 - b. Explain the concept of Events and Delegates with suitable example.
 - c. What is CSS? Explain internal and external CSS.
 - d. What is master page? Explain the advantages of using master page.
 - e. Explain DataAdapter object in ADO.NET.
 - f. Explain following Ajax controls with example and properties.
 - i. ScriptManager Control
 - ii. Timer Control
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