

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

1. **Attempt any three of the following:** 15
 - a. Draw and Explain .NET framework architecture.
 - b. Elaborate Array memory representation with an example.
 - c. Explain any 5 properties/methods of Math class.
 - d. Give details about Type Conversion.
 - e. Write short note on Value and Reference types.
 - f. Explain static members and partial class.

2. **Attempt any three of the following:** 15
 - a. List and explain any 5 templates to create ASP.NET applications.
 - b. Explain Anatomy of a Webform.
 - c. Write a note on Page class.
 - d. Explain any five properties of List box and Drop-down list controls.
 - e. Write a note on AdRotator control.
 - f. Brief about Graphics class and it's any 5 methods.

3. **Attempt any three of the following:** 15
 - a. Explain exception handling mechanism in C# with its key features.
 - b. What are State management techniques in ASP .Net?
 - c. Elaborate cookies with suitable code snippet.
 - d. What is cross page posting? Explain with an example.
 - e. Explain Master Page with its uses and working.
 - f. What is Theme? Explain Global theme.

4. **Attempt any three of the following:** 15
 - a. Explain the SQL Data Provider Model.
 - b. Give details about DataReader with example.
 - c. What is Data Binding? Explain its types.
 - d. Write short note on Data Source Controls.
 - e. Explain the ways of formatting the GridView Data for display.
 - f. Write short note on selecting a GridView Row.

5. **Attempt any three of the following:** 15
 - a. Write short note on the XML Text Reader class.
 - b. Explain the reading process from an XML Document with example.
 - c. Define Authentication and Authorization. Give types of Authentication.
 - d. What is Windows Authentication? Give details.
 - e. Explain AJAX with its advantages and Disadvantages.
 - f. Give brief information on Accordion control with appropriate properties.