

(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 its 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.