

(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 three of the following: 15**
- What is .NET framework? Explain in detail .NET framework along with a neat diagram.
 - What is garbage collection? How does it work in .NET?
 - Explain compiling and execution of a C# program.
 - What is difference between value type and reference type in C#?
 - Explain inheritance along with its types.
 - What is an ArrayList? State its methods and properties.
- 2. Attempt any three of the following: 15**
- Write a short note on ASP.NET page life cycle.
 - List and explain various types of files which are used in an ASP.NET application.
 - Write a short note on AdRotator control.
 - Explain Calendar control with example.
 - What is meant by validation of data? How to use ASP.NET validation control to validate the user input?
 - Explain any two Site Navigation Controls in ASP.NET.
- 3. Attempt any three of the following: 15**
- Explain Page Tracing in ASP.NET with an example.
 - Write a short note on Query Strings state management technique.
 - Develop ASP.Net web application to count total number of visitors visited to an ASP.NET website.
 - What is CSS? List and explain types of CSS.
 - What is a master page? Explain the advantages of using master page.
 - What are themes? Explain procedure of creating and using themes in a website.
- 4. Attempt any three of the following: 15**
- Draw and explain ADO.NET data provider model with diagram.
 - Explain (i) ExecuteNonQuery (ii) ExecuteScalar (iii) ExecuteReader
 - Write a short note on Data Binding.
 - Explain SqlDataSource control.
 - What is difference between DetailsView and FormView control?
 - Compare: Data Adapter and Data Reader.
- 5. Attempt any three of the following: 15**
- Explain the working of AJAX.
 - What is XML? List the various XML classes.
 - What do you mean by authentication and Authorization? Explain its types.
 - Explain ScriptManager and Timer controls.
 - Explain AutoCompleteExtender in ASP.NET AJAX Control Toolkit.
 - How web.config file is used to implement forms authentication in ASP.NET?

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