## (21/2 Hours)

| [Total | Mark | s: 751 |
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| N. 1            | B.: (1) All questions are compulsory.  |     |
|-----------------|--|-----|
|                 | (2) Make suitable assumptions whenever   |     |
|                 | (2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made.   | . \ |
|                 | (3) Answers to the same question must be written together. (4) Numbers to the right indicate marks.  |     |
|                 | (5) Draw neat labeled discovery when   |     |
|                 | (5) Draw neat labeled diagrams wherever necessary.   |     |
|                 | (6) Use of Non-programmable calculators is allowed.  |     |
| 1.              | Attempt any three of the following:  |     |
| a.              | Draw and explain .NET framework architecture.  | 15  |
| b.              | How does the Garbage Collector function in the   |     |
| •               | How does the Garbage Collector function in the context of .NET? Provide a brief overview of the Base Class Library in .NET.  |     |
| c.              | Explain any five properties/methods of Array class.  |     |
| d.              | Explain the process of data type conversion in CH and it will be   |     |
| e.              | Explain the process of data type conversion in C# and identify its various types. How to derive new class from base class? Give example.   | ,   |
| f.              | What steps are involved in constructing a fundamental Classic  |     |
| ••              | What steps are involved in constructing a fundamental Class in C#? Please delineate the different class modifiers.   |     |
|                 | directive class modificis.   |     |
| 2.              | Attempt any three of the following:  | 1.5 |
| a.              | Enumerate and elaborate on the different file types accessible within an ASP .NET  | 15  |
|                 | Application?   |     |
| o               | What is view state? Give the advantages and disadvantages of view state.   |     |
| <b>3.</b>       | Provide a concise overview of Application Events.  |     |
| 1.              | Explain Listbox control with properties and methods.   |     |
|                 | Write short note on AdRotator and Calendar control.  |     |
| <b>e.</b><br>f. | What is RangeValidator? Describe any four properties of it.  |     |
|                 | The state of the s |     |
| 3.              | Attempt any three of the following:  | 15  |
| ı.              | Explain exception handling mechanism in C#.  | 1.  |
| ).              | Explain the predefined classes related to System Exception.  |     |
| <b>:</b> .      | What are the Server-Side State Management techniques? Explain it.  |     |
| i. '            | Illustrate the usage of Cookies in an ASP NET Application with an example.   |     |
| - 1             | What is Theme? Explain Global theme.   |     |
| 5-              | What is a Master Page? How is it utilized in ASP .NET?   |     |
|                 |  |     |
|                 | Attempt any three of the following:  | 15  |
|                 | Explain the Data Provider Model within ADO .NET.   |     |
| )               | Write short note on Connected and Disconnected Data Access.  |     |
|                 | Write a brief explanation of the types of ASP.NET Data Binding.  |     |
|                 | Explain the Page Life Cycle with Data Binding.   |     |
|                 | Explain the GridView Control and its methods for defining columns.   |     |
|                 | Write short note on DetailsView.   |     |
|                 | Attempt any three of the following   |     |
| •               | Attempt <u>any three</u> of the following:   | 15  |
| •               | Provide an explanation of the XML TextWriter class, including its methods.   |     |
|                 | Describe the process of reading an XML document using the XDocument class. Elaborate Forms Authentication.   |     |
| •               |  |     |
| •               | Write short note on Authentication and Authorization, What is A IA X2 What are its adventages?   |     |
| • /             | What is AJAX? What are its advantages?   |     |
| •               | Write short note on Accordion control with appropriate properties.   |     |
|                 |  |     |

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