Paper / Subject Code: 53703 / Advanced Web Programming Date = 4/12/2023 T.Y.B.sc (1.T) (Sem ) (21/2 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 Draw and explain .NET framework architecture. a. How does the Garbage Collector function in the context of .NET? Provide a brief b. overview of the Base Class Library in .NET. Explain any five properties/methods of Array class. c. Explain the process of data type conversion in C# and identify its various types. d. How to derive new class from base class? Give example. e. What steps are involved in constructing a fundamental Class in C#? Please delineate the f different class modifiers. 2. Attempt any three of the following: 15 Enumerate and elaborate on the different file types accessible within an ASP .NET a. Application? What is view state? Give the advantages and disadvantages of view state. b. Provide a concise overview of Application Events. C. d. Explain Listbox control with properties and methods. Write short note on AdRotator and Calendar control. e. f. What is Range Validator? Describe any four properties of it. 3. Attempt any three of the following: 15 Explain exception handling mechanism in C#. a. b. Explain the predefined classes related to System Exception. What are the Server-Side State Management techniques? Explain it. c. d. Illustrate the usage of Cookies in an ASP.NET Application with an example. What is Theme? Explain Global theme. f. 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.

- c Write a brief explanation of the types of ASP.NET Data Binding.
- write a orier explanation of the types of ASI ANDI Data Billum
- d Explain the Page Life Cycle with Data Binding.
- e Explain the GridView Control and its methods for defining columns.
- f Write short note on DetailsView.

5. Attempt any three of the following:

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- a. Provide an explanation of the XML TextWriter class, including its methods.
- b. Describe the process of reading an XML document using the XDocument class.
- c. Elaborate Forms Authentication.
- d. Write short note on Authentication and Authorization.
- e. What is AJAX? What are its advantages?
- Write short note on Accordion control with appropriate properties.

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