

2019

Full Marks: 70

Time: As in the programme

The questions are of equal value.

Answer all the questions.

1. Explain in detail the architecture of .NET framework. [14]

OR

Write short notes on the following: - [4 x 3.5 = 14]

- (a) Common Language Runtime(CLR)
- (b) Common Type System(CTS)
- (c) Assemblies in .NET
- (d) Windows Workflow Foundation(WF)

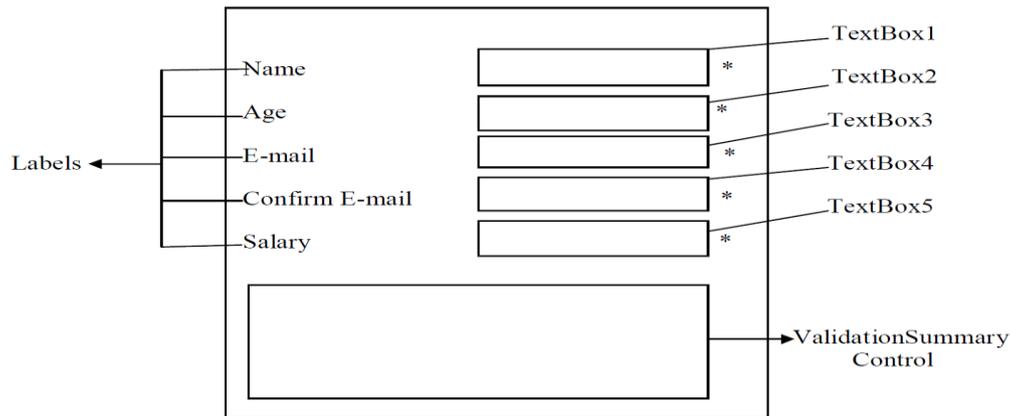
2. Create a Web Application that consists of two Buttons, Button1 is labeled as “Upload” and Button2 is labeled as “Load”. “Upload” Button when clicked will upload a file of .doc or .docx extension and size should not exceed 500kb into the application. “Load” Button when clicked will load the names of countries from an xml file into a DropDownList. The xml file consists of names of 5 countries. Take a FileUpload Control for file upload and a DropDownList to hold the names of 5 countries.

[14]

OR

What are Validation Controls and why they are important in ASP.NET? Create a Web Application that consists of a web page. Create the Labels and Textboxes dynamically (during run time). Take the different validation controls such as RequiredFieldValidator, RangeValidator, CompareValidator, CustomValidator and ValidationSummary during design time. All the error messages should be displayed in ValidationSummary Control as well as in MessageBox. Every TextBox has a ‘*’ to its right as error message for Validation Controls and the actual error message should be displayed in the

ValidationSummary Control as well as in MessageBox. Design the web page as per the given figure. [14]



The following error messages are displayed for different validation controls that are applied to different Textboxes are shown in the table below:-

Validation Control Type	On the TextBox Applied	Error Message
RequiredFieldValidator	TextBox1	Name can't be blank
RangeValidator	TextBox2	Age should be between 21 and 40
RequiredFieldValidator	TextBox3	E-mail can't be blank
CompareValidator	TextBox4	E-mail do not match
CustomValidator	TextBox5	Salary should be an even number

3. (a) What is Globalization in ASP.NET and state the important namespaces used in Globalization? How Localization and Internationalization is related to Globalization? [7]
- (b) What do you mean by HttpHandlers and what are the methods and properties used to create HttpHandlers? Give a suitable example for HttpHandlers. [7]

OR

Create an xml file that consists of student information such as Roll number, Name, Course of 6 students. Create a Web Application that consists of a GridView Control which displays all the information of 6 students when the page loads. The Web Application retrieves data from server every 60 seconds and retrieves from cache within 60 seconds. Also take a DropDownList and a Label. Load the roll numbers of all students in DropDownList from xml file when the page loads. When a roll number in the DropDownList is selected, its corresponding name is displayed in the Label. [14]

4. (a) What is Web Service? With a neat and labeled diagram, explain in detail the infrastructure of ASP.NET Web Services. [10]
- (b) What is SOAP and why they are used in Web Service? Also specify the syntax of SOAP. [4]

OR

Create a Web Service that acts as a Calculator consisting of the following operations, addition, subtraction, multiplication, division and modulus. Display different functions for different operations of the calculator in Web Service. Write the step by step procedure of consuming the Calculator Web Service that has been created by you. [14]

5. Create a database named as "Employee". In the "Employee" database, create a table named as "EmpInfo". The "EmpInfo" table consists of a field called "ID", "Name" and "Salary". The "ID", "Name" and "Salary" field consists of ids, names and salaries of all employees respectively. Create an ASP.NET application which takes ID in a TextBox and when a "Search" button is clicked, based on the entered Id in the TextBox, displays Employee's Name and Salary in Label1 and Label2 respectively. [14]

OR

Create an ASP.NET application that shows the data from the student database in different textboxes. The table consists of registration number, name, address, phone, semester, department and university. Take Labels and Textboxes for each field of the table. The application should have five buttons as, "FIRST", "PREVIOUS", "NEXT", "LAST" and "CLEAR". The "FIRST" button shows the first record of the student database. The "PREVIOUS" button takes the user to previous record of the current record. The "NEXT" button takes the user to the next record of the current record. The "LAST" button takes the user to the last record of the student database. The "CLEAR" button clears all the TextBoxes. [14]
