

- 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 two of the following **10**

- a. Why exception handling is required? Write syntax for user define exception?
- b. Explain inheritance and polymorphism.
- c. Short note on framework base class library.
- d. What is type casting? Explain the concept of Boxing and Unboxing.

2. Attempt any two of the following **10**

- a. Explain <LINK> tag with example.
- b. What is Garbage Collector? How it works?
- c. What is CSS? Give its advantages and disadvantages.
- d. What is delegate? Explain the steps to implement delegate in C#.NET.

3. Attempt any two of the following **10**

- a. Explain CheckBox and RadioButton web server controls in ASP.NET .
- b. Explain the different parts that constitute ASP.NET application
- c. What is the difference between Button and LinkButton web server controls?
- d. Write a code that shows how to write a " LOCAL " cookie to a client's computer. The " LOCAL " cookie, stores
FirstName _____
LastName _____

4. Attempt any two of the following **10**

- a. Explain CustomValidator control with suitable example.
- b. What is the relationship between master page and content page?
- c. Explain UriEncode() and UriDecode() methods in ASP.NET.
- d. Create a web page to read student's seat number, name add contact number using text boxes. Use appropriate validation controls to validate the following
Student roll number should be from 1 to 120, name is compulsory and contact number must be of 10 digits. Write HTML and code behind code

5. Attempt any two of the following

10

- a. What is DataReader? Explain ExecuteReader, ExecuteNonQuery methods.
- b. Explain command object in ADO.NET
- c. Consider there is a table named StudentsInfo having fields such as CodeNo, Name, Address, ContactNo, City in Sql Server. Write code to display get all record from database into GridView control.
- d. Explain windows authentication in ASP.NET.

6. Attempt any two of the following

10

- a. What is Ajax? Explain UpdatePanel control with example
- b. What is the use of Document Ready function?
- c. Explain JQuery expression with example
- d. Create a web page to declare and initialize array of 10 integers and display the numbers greater than 30 using LINQ. Code should execute on button's click event in a web page.

7. Attempt any three of the following

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- a. What is post-back event? Explain IsPostBack with suitable example.
- b. Write a code to achieve overriding using virtual method. Use comments whenever necessary.
- c. Explain the Provider Model of ASP .NET.
- d. Write short note on jQuery event functions.
- e. Differentiate between Dataset and DataReader.
- f. What are different ways to integrate a CSS into a web page