Paper / Subject Code: 53703 / Advanced Web Programming

(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 labelled diagrams** wherever **necessary**.
(6) Use of **Non-programmable** calculators is **allowed**.

1. **Attempt _any three_ of the following:**   15
a. Draw and Explain .NET framework architecture.
b. Elaborate Array memory representation with an example.
c. Explain any 5 properties/methods of Math class.
d. Give details about Type Conversion.
e. Write short note on Value and Reference types.
f. Explain static members and partial class.

2. **Attempt _any three_ of the following:**   15
a. List and explain any 5 templates to create ASP.NET applications.
b. Explain Anatomy of a Webform.
c. Write a note on Page class.
d. Explain any five properties of List box and Drop-down list controls.
e. Write a note on AdRotator control.
f. Brief about Graphics class and it's any 5 methods.

3. **Attempt _any three_ of the following:**   15
a. Explain exception handling mechanism in C# with its key features.
b. What are State management techniques in ASP .Net?
c. Elaborate cookies with suitable code snippet.
d. What is cross page posting? Explain with an example.
e. Explain Master Page with its uses and working.
f. What is Theme? Explain Global theme.

4. **Attempt _any three_ of the following:**   15
a. Explain the SQL Data Provider Model.
b. Give details about DataReader with example.
c. What is Data Binding? Explain its types.
d. Write short note on Data Source Controls.
e. Explain the ways of formatting the GridView Data for display.
f. Write short note on selecting a GridView Row.

5. **Attempt _any three_ of the following:**   15
a. Write short note on the XML Text Reader class.
b. Explain the reading process from an XML Document with example.
c. Define Authentication and Authorization. Give types of Authentication.
d. What is Windows Authentication? Give details.
e. Explain AJAX with its advantages and Disadvantages.
f. Give brief information on Accordion control with appropriate properties.

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