Exam. Code : 206704
Subject Code : 4644

M.Sc. (Computer Science) Semester—IV

MCS–401 : ADVANCED WEB TECHNOLOGIES USING ASP.NET

Time Allowed—3 Hours] [Maximum Marks—100

Note :— Attempt any **FIVE** questions. All questions carry equal marks.

1. Explain the following validation controls with examples :
   (a) Compare validator
   (b) Custom validator
   (c) Range validator
   (d) Regular Expression validator.

2. Write an ASP page to allow the user to enter his/her age (numeric value between 1 and 99). Apply proper validations and generate required error messages in case. The field is mandatory.

3. Design a form and write code to :
   (a) Populate and display item's names in a dropdown list.
   (b) Select an item from dropdown list and display its details in underlying text boxes.
   (c) Add a record.
   (d) Delete selected record.

   Use connected architecture. Name of Table : ItemMaster (ItemNo. Name, Description, Unit of Measure, Price); Name of Server : MyAspDB (SQL Server).

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4. Explain ADO.NET object model with a suitable diagram.

5. Create an application that displays data from the Students table in a DataGridView and then displays the selected student's marks in the same DataGridView when a button is clicked.

6. What are database objects ? Explain how database objects are built with the .NET framework.

7. Briefly explain session state and session events.

8. Write short notes on the following :

   (a) Rich controls

   (b) Browser cookies.