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## MANIPAL INSTITUTE OF TECHNOLOGY (Constituent Institute of Manipal University) MANIPAL-576104



## SEVENTH SEMESTER B.E. (CSE) DEGREE END SEMESTER EXAMINATION NOV./DEC. 2012

ADVANCED INTERNET TECHNOLOGY (CSE 409)
DATE: 28-11-2012

TIME: 3 HOURS MAX.MARKS: 50

## **Instructions to Candidates**

- Answer any five full questions.
- 1A. Which are the two types of Data Binding? Explain with an example.
- 1B. Explain different types of validation controls in ASP.NET with an example.
- 1C. Create three classes in VB.NET using the following instructions:
  - Class named "Person", whose members are:
    - o "Id" Automatic Property of type integer, which is accessible only by members inside the class or in any class that inherits from this class.
    - o "Name" Automatic Property of type string, which is accessible by members in any class in the current assembly.
    - o "Display()" Method which returns string formed by concatenating values of "Id" and "Name".
  - Class named "Student", which derives from "Person" Class and contains definition for the following members:
    - o "Grade" Automatic Property of type decimal, which is accessible only by members inside the class.
    - o "Display()" Method which overloads "Display" method of the base class and returns string formed by concatenating values of "Id", "Name" and "Grade" separated by spaces.
  - Class named "College", whose members are:
    - o "Name" Automatic Property of type string, which is accessible by members of any class.
    - o "Students" Generic Collection restricted to "Student" Object.
    - o "Display()" Method which returns a string formed by concatenating all student names in "Students" collection.

(3+3+4)

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- 2A. Why is it that most web applications don't use files?
- 2B. Explain different stages of an ASP.NET Request with an example.
- 2C. Differentiate between Session State and View State using any five parameters. (2+3+5)
- 3A. Explain Master Page and Content Page in ASP.NET with an example.
- 3B. Create a web application as shown in the following figure, which accepts multiline user input and saves it to a text file under "App\_Data" folder.

Enter the text:	<u></u>
Save To File Clear	

3C. Explain postback processing sequence?

(2+3+5)

- 4A. How do you enable sorting and paging in ASP.NET GridView control? 4B. Consider a "*Publications*" database, containing "*Titles*" table whose schema is as shown below:
- Column Name Data Type Allow Nulls

  id nvarchar(50)

  name nvarchar(250)

  price decimal(10, 2)

  author\_id nvarchar(50)

  author\_name nvarchar(255)

  □

Develop a simple web application as shown in the following figure, to display all the titles information in a *GridView* using **dataset** object.

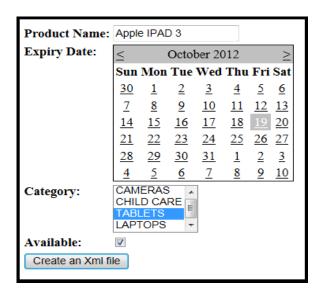
Ш	Name	Price	Author	
1	C++ Programming	550.00	name: Stroustrup id: 0012345674	Select
2	C++ Primer Plus	300.00	name: Lippman id: 0009997234	<u>Select</u>
4	Beginning ASP.NET4	450.00	name: MacDonald id: 0002890700	Select
3	CLR Via C#	600.00	name: Richter id: 0000629800	Select

Format the *GridView* as mentioned below:

• **Headers** - Change background color to "Gray" and Text color to "White" with bold font.

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- **Selected Row** Change background color to "Light Gray" and Text color to "White".
- **Data Rows** Display text in bold to highlight high prices (those more expensive than Rs. 500) (2 + 8)
- 5A. How can you control the layout of a web page using CSS positioning?
- 5B. Explain different technologies of .NET framework.
- 5C. Create a web application as shown in the following figure, which accepts user input for name, expiry date, category and availability of a Product.



On click of "Create an Xml file" button, Xml file as shown below should be created under "App\_Data" folder.

- 6A. Explain guidelines, benefits and types of caching in ASP.NET.
- 6B. Explain the following
  - (i) Declarative event handling
  - (ii) Forms Authentication

(iii) Windows Authentication

(4 + (2 + 2 + 2))

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