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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:
 - "*Id*" - Automatic Property of type integer, which is accessible only by members inside the class or in any class that inherits from this class.
 - "*Name*" - Automatic Property of type string, which is accessible by members in any class in the current assembly.
 - "*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:
 - "*Grade*" - Automatic Property of type decimal, which is accessible only by members inside the class.
 - "*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:
 - "*Name*" – Automatic Property of type string, which is accessible by members of any class.
 - "*Students*" – Generic Collection restricted to "*Student*" Object.
 - "*Display()*" – Method which returns a string formed by concatenating all student names in "*Students*" collection.

(3 + 3 + 4)

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.

The image shows a web form with a text area labeled "Enter the text:". Below the text area are two buttons: "Save To File" and "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)	<input type="checkbox"/>
	name	nvarchar(250)	<input type="checkbox"/>
	price	decimal(10, 2)	<input checked="" type="checkbox"/>
	author_id	nvarchar(50)	<input type="checkbox"/>
	author_name	nvarchar(255)	<input type="checkbox"/>

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

ID	Name	Price	Author	
1	C++ Programming	550.00	name: Stroustrup id: 0012345674	Select
2	C++ Primer Plus	300.00	name: Lippman id: 0009997234	Select
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.

- **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.

Product Name: Apple IPAD 3

Expiry Date: < October 2012 >

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Category: CAMERAS, CHILD CARE, TABLETS, LAPTOPS

Available: ☒

Create an Xml file

On click of "*Create an Xml file*" button, Xml file as shown below should be created under "*App_Data*" folder.

```
<?xml version="1.0"?>
<ProductList>
  <!--This file is generated by web application-->
  <Product Name="Apple IPAD 3" ExpiryDate="10/19/2012">
    <Category>TABLETS</Category>
  </Product>
</ProductList>
```

(2 + 3 + 5)

6A. Explain guidelines, benefits and types of caching in ASP.NET.

6B. Explain the following

- Declarative event handling
- Forms Authentication
- Windows Authentication

(4 + (2 + 2 + 2))
