Reg No.

MANIPAL INSTITUTE OF TECHNOLOGY
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MANIPAL-576104

SEVENTH SEMESTER B.Tech. (CSE) DEGREE END SEMESTER EXAMINATION
NOV./DEC. 2012
ADVANCED INTERNET TECHNOLOGY (CSE 409)
DATE: 28-12-2012

TIME: 3 HOURS   MAX.MARKS: 50

Instructions to Candidates
- Answer **any five** full questions.

1A. Briefly explain the advantages and disadvantages of CLR.

1B. Write a Visual basic program to sort an array of integers using Bubble Sort algorithm.

1C. Compare Value Types and Reference Types in Visual basic programming language with suitable examples.

(3+3+4)

2A. Briefly explain the importance of global.asax file with an example. List and describe basic application events.

2B. Briefly explain the anatomy of ASP .Net web form with an example.

2C. What do you mean by BulletedList Control? Explain any four BulletedList Control properties.

(3+3+4)

3A. Compare Session State and Application State with any five suitable parameters?

3B. Explain the format of advertisement file of AdRotator control with an example.

(5+5)

4A. Consider the database *"University"* containing a table named *"Student"*. *"Student"* table has structure as shown in figure below.

Column Name	Data Type	Allow Nulls
firstname	nchar(10)	☑
lastname	nchar(10)	☑
🔑 rollno	nchar(10)	☐
deptid	nchar(10)	☑
age	nchar(10)	☑

Fig. Student Table Structure

Develop a simple web application to display the contents of the *"Student"* table using a SqlDataSource and GridView controls. Provision should be made to update the selected record, delete and insert a new student entry based on the *rollno* of the student.

4B. Explain the use of GridView Templates with example.

(5+5)

5A. List and describe members of the DirectoryInfo and FileInfo Classes.

5B. Create and describe the XML Schema Document for the following sample XML file. Assume the namespace for the following XML is *http://www.Sample.com/SampleXml*

```
<?xml version="1.0"?>
<ShipOrder>
 <orderperson>Humpty</orderperson>
 <shipto>
   <name>Dumpty</name>
   <address>Ananth Nagar</address>
   <city>Manipal</city>
   <country>Karnataka</country>
 </shipto>
 <item>
   <title>Car</title>
   <note>Petrol Engine</note>
   <quantity>1</quantity>
   <price>330000</price>
 </item>
 <item>
   <title>Cover </title>
   <quantity>1</quantity>
   <price>5000</price>
 </item>
</ShipOrder>
```

(5+5)

6A. What is the use of FormsAuthentication Class? List and Describe the important members of FormsAuthentication Class.

6B. What do you mean by Output Caching? Explain the action of Output Caching with an example.

(5+5)

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