Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)

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प्रज्ञानं ब्रह्म

KNOWLEDGE IS POWER

VII SEMESTER B.TECH (COMPUTER SCIENCE AND ENGINEERING)

END SEMESTER EXAMINATIONS, NOV/DEC 2015

SUBJECT: ADVANCED INTERNET TECHNOLOGY [CSE 403]

REVISED CREDIT SYSTEM
03 Dec 2015

Time: 3 Hours   MAX. MARKS: 50

Instructions to Candidates:

❖ Answer **ANY FIVE FULL** questions.

❖ Missing data, if any, may be suitably assumed.

1A. Write the C# console program to display Today's and Yesterday's date using DateTime
class.

  Example: Today: 1/2/2015 12:00:00 AM   2M
                    Yesterday: 1/1/2015 12:00:00 AM

1B. How are the languages compiled in .NET? Explain using block diagram.   3M

1C. Create the class 'Travel', which contains the properties called Source, Destination, and
Distance. Add the constructor to initialize the object. The class also contains a method
called 'Display' to show the information as given in Fig Q.1.C.1. Fire the event when
the distance is more than 500km as shown in Fig Q.1.C.2. Write the console application
to demonstrate the class.

Fig Q.1.C.1

Fig Q.1.C.2   5M

2A. Write any four features of global.asax file.   2M

2B. What is the difference between InnerText and InnerHtml? Give example for each.
What is the use of HtmlEncode() method? Give example.   3M

2C. Create a web page as shown in Fig Q.2.C.1. Use the enumerations to add the items in list box (color Names and font names). User needs to enter text in the textbox and select the item in the list boxes. On clicking the Button, Message should be displayed in the label and modified button should be displayed as shown in Fig Q.2.C.2.
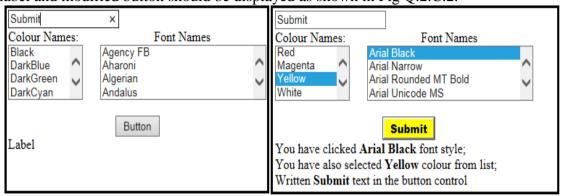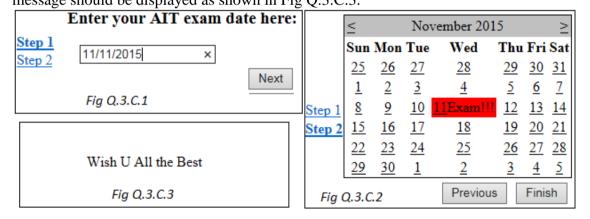

Fig Q.2.C.1   *Fig Q.2.C.2*

5M

3A. Create a webpage with a textbox to display the name of the Professor [Ex: Dr. Ann]. The text box should only take Names that start with 'Dr'. Use the custom validator to validate the textbox at the server side. Display the error if user enters number or other than Dr in the textbox.

2M

3B. Write the comparison between view state, query string and custom cookies using scope and Lifetime parameter.

3M

3C. Create a single web page using Wizard control. In the first step user will enter the date as shown in Fig Q.3.C.1, on clicking the 'Next' button, the entered date is highlighted in the calendar control as shown in Fig Q.3.C.2. On clicking the 'Finish' button, the message should be displayed as shown in Fig Q.3.C.3.

Fig Q.3.C.1

Fig Q.3.C.3

Fig Q.3.C.2

5M

4A. Explain the relationship between themes and skins in ASP.NET with an example.

2M

4B. Create a web page with master page and one content page. The master page contains one image control, and the content page contains two buttons 'SHOW' and 'HIDE'. On clicking the SHOW button the image in the master page should be visible. On clicking the HIDE button, the image in the master page should be invisible.

3M

4C. Create the web page to show the design as given in Fig Q.4.C. Create 'Student' table with required fields. When page loads, the list box should be displayed with the student names. Use the direct data access technique to fill Listbox. On selecting the name from listbox, the details shoud be displayed in the Gridview and name should be diplayed in Label. On selecting the Edit button in the Gridview, only the Total field should be editable. Update the value into database. Write the .cs and .aspx file.

List Of Students:

```
Aditya
Roshan
Stuti
```

This is the marks of: **Stuti**

	Details
Update Cancel	Sessional 1: 17 Sessional 2: 18 Assignment: 9 Total: 44

Fig Q.4.C   5M

5A. Give the difference between 'try…. catch' and 'using' error handling techniques.   2M
5B. How the repeated value data binding works? Use dropdown list and dictionary collection to explain this.   3M
5C. The XML file elements are given below.

```
<Class>
  <Student Name= Ramesh Roll=10/>
  <Assignment>10</Assignment>
  <Sessional>38</Sessional>
  </Student>
</Class>
```
                                                                                           5M

Use XDocument class to create the XML file as shown above. Read the same XML file and Display the contents in DetailsView.

6A. Define the two types of authentication used to secure an ASP.NET web site.   2M
6B. List the features of cache object which will differentiate it from Application object. 3M
6C. Explain the following with code snippet.
   a) Path Class
   b) Limitations of files
   c) Controlling access to Specific files and directories in web application   5M