

Reg. No.



MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL

A Constituent Institution of Manipal University

VII SEMESTER B.TECH. (COMPUTER SCIENCE ENGINEERING)

END SEMESTER EXAMINATIONS, NOV/DEC 2017

SUBJECT: INTERNET TECHNOLOGIES [CSE 4101]

REVISED CREDIT SYSTEM

(16/11/2017)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitably assumed.

- 1A. List and explain any 4 HTTP commands in HTTP protocol. **2M**
- 1B. Why ASP.NET uses server side programming? Give three reasons. **3M**
- 1C. Write a web application code for two pages [write .aspx and .cs code]. Page 1 contains the controls as shown in Fig Q1.C.1 and add any 3 items and its amount to the DropDownList. On clicking the Generate Bill button the user is directed to page 2 with total amount as shown in Fig Q1.C.2. Use Session State to store the information. **5M**

Fig Q1.C.1

Lakshman has taken 6 Soap
Total amount is = 180

Fig Q1.C.2

Hint: Use ListItem

- 2A. Draw the block diagram for .NET class library and CLR. **2M**
- 2B. Write a C# program to convert Feet to Inches using Delegates. **3M**
Expected Output: Enter Feet: 50
50 Feet = 600 Inches.
- 2C. What happens when a user changes a control that has the AutoPostBack property set to True? Write the page life cycle along with a figure to depict the process. **5M**
- 3A. Explain two main types of caching used in ASP.NET web application. **2M**
- 3B. Write the steps in implementation of form based security along with the web.config settings. **3M**
- 3C. Tabulate the differences between **5M**
a) View State and Session State [using any 4 suitable parameters]
b) DirectoryInfo class and Directory class [any 1]

- 4A. How the repeated value data binding works? Explain with example. **2M**
- 4B. Explain the use of ajax ScriptManager control? How it is used along with UpdatePanel control? Give the code snippet. **3M**
- 4C. Create a web application which contains two pages as shown below. Using direct data access method, display only names in the dropdown list as shown in Fig Q4.C.1. On clicking the Details button, page 2 is displayed with all the details in DetailsView control as shown in Fig Q4.C.2. Use Query String to pass the name from page 1 to page 2. Use SqlDataSource control to display in page 2. Write *page1.cs* and *page2.aspx*. **5M**

Page 1 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">Vihang ▼</div> <div style="border: 1px solid black; padding: 2px;">Details</div> </div> Fig Q4.C.1	Page 2 <table border="1" style="width: 100%;"> <tr><td>Name</td><td>Vihang</td></tr> <tr><td>Age</td><td>3</td></tr> <tr><td>Gender</td><td>Male</td></tr> <tr><td>Place</td><td>Hubli</td></tr> </table> Fig Q4.C.2	Name	Vihang	Age	3	Gender	Male	Place	Hubli
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Write the code for *page1.cs* and *page2.aspx*.

- 5A. How to create Validation Groups in ASP.NET applications? Give example. **2M**
- 5B. What are the two methods used to read and write XML file? List the differences between these two. **3M**
- 5C. Create a web application with master page and one content page. On selecting the item (staff or student) from DropDownList in master page, related content should display in the content page as shown in fig below. Use GridView control to display the selection using disconnected data access. Use named skins to change the GridView appearance. Write the *MasterPage.cs*, *contentPage.cs* and *contentPage.aspx*. **5M**

Master Page : <div style="border: 1px solid black; padding: 2px;">Staff ▼</div> Content Page: <table border="1" style="width: 100%; text-align: center;"> <tr><th style="color: red;">Id</th><th style="color: red;">Name</th><th style="color: red;">Designation</th></tr> <tr><td style="color: red;">1</td><td style="color: red;">Dr. Ali</td><td style="color: red;">Prof</td></tr> <tr><td style="color: red;">2</td><td style="color: red;">Dr. Ram</td><td style="color: red;">Asst Prof</td></tr> <tr><td style="color: red;">3</td><td style="color: red;">Prof. Noor</td><td style="color: red;">Prof</td></tr> </table> Fig Q5.C.1	Id	Name	Designation	1	Dr. Ali	Prof	2	Dr. Ram	Asst Prof	3	Prof. Noor	Prof	Master Page : <div style="border: 1px solid black; padding: 2px;">Student ▼</div> Content Page: <table border="1" style="width: 100%; text-align: center;"> <tr><th style="color: blue;">Id</th><th style="color: blue;">Name</th><th style="color: blue;">Address</th></tr> <tr><td style="color: blue;">1</td><td style="color: blue;">Vihang</td><td style="color: blue;">Manipal</td></tr> <tr><td style="color: blue;">2</td><td style="color: blue;">Tarun</td><td style="color: blue;">Mumbai</td></tr> <tr><td style="color: blue;">3</td><td style="color: blue;">Tanvi</td><td style="color: blue;">New Delhi</td></tr> </table> Fig Q5.C.2	Id	Name	Address	1	Vihang	Manipal	2	Tarun	Mumbai	3	Tanvi	New Delhi
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