Reg. No.									

MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
(A constituent unit of MAHE, Manipal)

VII SEMESTER B.TECH. (COMPUTER SCIENCE AND ENGINEERING)
MAKEUP EXAMINATIONS, DEC 2019
SUBJECT: INTERNET TECHNOLOGIES [CSE 4101]
REVISED CREDIT SYSTEM
(20/12/2019)

Time: 3 Hours   MAX. MARKS: 50

Instructions to Candidates:

❖ Answer **ALL** the questions.

❖ Missing data may be suitably assumed.

1A. For the schema of the "student" table given in Fig Q.1A.1, develop a simple web application as shown in Fig Q.1A.2, to display student information in a *GridView*.

Fig Q.1A.1 : "Student" table   Fig Q.1A.2 : Sample Output

- Extract the information from database using appropriate data source control.
- User should be able to sort records by "SName"
- Show only 2 records at a time in GridView
- User should be allowed to edit only "SName" and "CGPA"   **5M**

1B. Explain the following using example code:
(i) Parameterized command
(ii) Single-value data binding   **3M**

1C. How can XML be validated? What is the use of XML Namespaces?   **2M**

2A. Create a C# Console Application with two classes called "Student" and "Department" with appropriate members to store values from the database tables "Student" (schema shown in Fig.Q.2A.1) and "Department" (schema shown in Fig.Q.2A.2) respectively. The Student object must contain a Department object. In the main method, use disconnected data access to fetch student information along with the information about the department (id and name) they belong to and populate this to a generic collection of Student.
(Note: "Dept_id" field of "Student" table references "Id" of "Department" table)

Fig.Q.2A.1: Student schema   Fig.Q.2A.2: Department Schema   **5M**

2B. Explain the postback processing sequence with labeled diagram for web control events and AutoPostBack   **3M**

2C. Explain how to store and retrieve connectionstring from web.config file with a code snippet? **2M**

3A. Tabulate the differences between Session State and QueryString using any five suitable parameters. **5M**

3B. Describe the usage of Master page and Content Pages in ASP.NET with sample code. **3M**

3C. Describe the following Validation controls along with the tags for the same.
  i.   RequiredFieldValidator
  ii.   RangeValidator **2M**

4A. Design a website with two pages.
First page contains Dropdown list for camping tent brands with Coleman, ALPS, North Face, and Quechua. CheckBox for type of camping tent with Dome, A-frame, PopUp, Tunnel, and Inflatable as items. TextBox to enter quantity. There is a button with text as "Produce Bill". On Clicking Produce Bill button, item should be displayed with total amount on another page as shown in Fig.Q.4A.1. Cost for brand and type of tents can be assumed appropriately.

Camping Tent Brand	Type of Tent	Quantity	Rate
ALPS	A-frame	3	20000
Total Price			60000

Fig.Q.4A.1 **4M**

4B. Create a web application to design a pamphlet on high altitude climbing expeditions, by taking inputs from user through web controls such as textarea, checkBox, buttons, labels and images (any other web controls apart from these can also be added as per requirement). Following are the information which are collected by the user to design a pamphlet.
  a. Name of expedition
  b. Meetup point
  c. Group size
  d. Difficulty Level : Very High, High, Medium, Low, Very Low
  e. Fitness Level : Very High, High, Medium, Low, Very Low
  f. Duration : in days
  g. Elevation : in mtrs and fts **4M**

4C. Write a skin file named MyStyle.skin to include two different styles for a TextBox control. The styles should change the ForeColor and BackColor of the TextBox. Also show the usage of this skin file by applying the styles on two different TextBox controls. [Note: Write the skin file and only the TextBox tags in .aspx file] **2M**

5A. Develop an ASP.NET website that generates the front cover for a magazine. It consists of a checkbox list for choosing images to display, a dropdown list to choose the background-color, a text box to add the title to the front cover, and a submit button. When submit button is clicked, without posting back the page the images needs to be displayed. Use Ajax controls to achieve the same. [Write .aspx and .aspx.cs code] **5M**

5B. Explain the following security issues with example code.
  i.   Authorization rule to access website
  ii. Controlling access to specific file **3M**

5C. Explain any four disadvantages of using files to store data. **2M**

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