

## VII SEMESTER B.TECH (COMPUTER SCIENCE AND ENGINEERING)

### MAKEUP SEMESTER EXAMINATIONS, DEC/JAN 2016

### SUBJECT: ADVANCED INTERNET TECHNOLOGY [CSE 403]

#### REVISED CREDIT SYSTEM

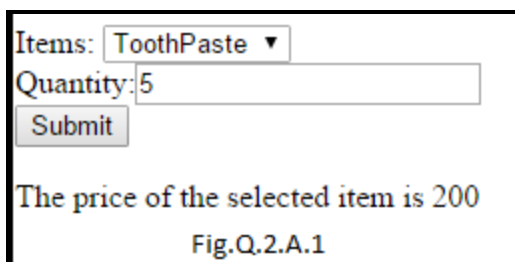
Time: 3 Hours

MAX. MARKS: 50

#### Instructions to Candidates:

- ❖ Answer **ANY FIVE FULL** questions.
- ❖ Missing data, if any, may be suitably assumed.

- 1A. With a neat diagram, explain the concept of CIL and CLR in .NET Framework. Also mention the advantages and disadvantages. 5M
- 1B. Write C# program that 3M
- i) Consider an string array of size 10, which accepts strings from user input
  - ii) Remove duplicate strings and create a dynamically resizable string array which can hold the exact resultant strings.
- 1C. Give the authorization code for 2M
- i) Denying all anonymous users and also denying valid users named Mohan, Shyam and Ram. Rest all valid users are permitted.
  - ii) Denying all anonymous users and only permitting valid users named Tom, Jim and Harry. Rest all valid users are denied.
- 2A. Develop a simple ASP.NET webform using HTML Server Control using the controls: Dropdownlist, Submit button, Textbox, paragraph tag. The dropdownlist is used to list items in the store. The item name is displayed whereas the price is hidden from the user in the dropdown list. The items are added during design time. On clicking the "Submit" button, the following message should be displayed in the <p> tag: "The price of the selected item is": Qty\*Price .Write the .aspx code for the 4 controls and .cs code for the Fig.Q.2.A.1. 5M



Items: ToothPaste ▼

Quantity: 5

Submit

The price of the selected item is 200

Fig.Q.2.A.1

- 2B. What are the steps taken by ASP.NET, when you create a webpage that includes one or more web controls that are configured to use AutoPostBack? 3M
- 2C. Write only the .cs code for a webform as shown in Fig.Q.2.C.1 which accepts 2M

Color in the textbox. On clicking the “Add an additional color” button, the color is added in the listbox. On clicking “Submit” button, the selected colors from the listbox are displayed in the label control linewise.

- 3A. Write the necessary functions(.cs code) needed for the following calendar control requirement: 5M
- Highlight “June 10” in any year by adding new label control stating “My Birthday” in the table cell for that day.
  - When you choose Monday in the calendar, add “10:00”, “10:30” and “11:00” or else for other days add “8:30”, “9:00” and “9:30” into a listbox.
- 3B. Explain with an example why application state is termed as inefficient? How is the problem resolved? 3M
- 3C. Explain the following in session state: 2M
- InProc mode
  - Cookieless attribute
- 4A. Create a webform as shown in Fig.Q.4.A.1 where employees are requesting for promotion and only those who satisfy the below criteria are permitted to go to next web page. 5M
- UserId** starting with “MAHE000” followed by numbers from 001 to 100 [Eg:MAHE000099] [ Use Custom Validator for ]
  - Year of Birth**( between 1970-1979)
  - Number of Extra Department Works taken in 2014** should be less than **Number of Extra Department Works taken in 2015**.
- Use Validation Summary and appropriate validations for the form.

- 4B. Write a .cs code to create a table using Table controls with 3 rows and 3 columns? 3M

4C. Create a “GoGreen” theme where a whole website with many pages is designed using this theme. In this website, the background of all the text boxes and buttons should be green using themes. Write the mandatory steps needed to implement the “GoGreen” theme. 2M

5A. Create a “Survey Administration Page” as shown in the Fig.5.A.1. 5M  
The “QP” database that contains the table :

**Questionnaire (QuestionID, QuestionText, Answ1,Answ2,Answ3,Answ4)**

Write the .cs code and use direct data access.

- The first listbox should be populated with the questions.
- On selecting a question in the listbox, the details of the question that is the QuestionText and the answers should be displayed in the textboxes.
- On clicking “Add New Question”, the administrator should be able to add new question into the questionnaire table [Use parametrized command]
- On clicking “Update This Question”, the administrator should be able to change the question and answers.

Question Database:

What is your favourite IceCream Flavour?

What is your favourite programing language?

What is your favourite sport?

Who is the first Prime Minister of India?

Question Test : What is your favourite programing language?

C++

C#

Visual Basic

Python

Answers:

Update This Question Add New Question

Fig.Q.5.A.1

5B. Create an XML document using XDocument class. The fields are as shown in the Fig.Q.5.B.1, On clicking “Add to GuestBook”, the details should be stored in an XML. 3M

Name: Anvitha Singh

Email: anv.singh@gmail.com

Homepage: www.anv.com

Country: India

Comment: This is a great application

Add to Guest Book

Fig.Q.5.B.1

5C. Explain any four members of DriveInfo class? 2M

6A. What are two right occasions for going for caching and what are two benefits from caching? Explain any two types of caching? 5M

6B. Create a Search Page as shown in the Fig.Q.6.B.1. On clicking the “Search” 3M

button, based on the directory name specified in the text box,

- i) In case “Files” is checked , it will list all the file names present in that directory in a label control
- ii) In case “Directory” is checked, it will list all directory Names in a label control
- iii) In case both are checked, it will display message **”Please click either Files or Directories”** in a label control

**Search Page**  
Directory Name: C:\  
☒ Files ☐ Directories  
  
cbs.log  
Install.log  
hyberfil.sys

Fig.Q.6.B.1

- 6C. Create a webpage with DataGrid as shown in Fig.Q.6.C.1 which populates 2M Author Table using disconnected Data access. All the fields in the table are as displayed in the grid. On selection of the fore color and on clicking “Select” in gridview, the selected row background color should be changed to the selected font color.

Publisher	City	Country	ForeColor	
Binnet & Hardley	Washington	USA	Green ▼	Select
New Moon Books	Boston	USA	Green ▼	Select
Scootney Books	New York	USA	Green ▼	Select

Fig.Q.6.C.1