



VII SEMESTER B.TECH. (COMPUTER SCIENCE AND ENGINEERING) MAKEUP EXAMINATIONS, DEC 2018

SUBJECT: INTERNET TECHNOLOGIES [CSE 4101]

REVISED CREDIT SYSTEM

(22/12/2018)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

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

- 1A.** Develop a simple web application to display the contents of "Product" table (schema shown in Fig.Q.1.A.1) using SqlDataSource and GridView controls as shown in Fig.Q.1.A.2. User should be allowed to edit only name and quantity (qty) of the Product. Using appropriate validation controls ensure that name field is not blank and quantity is between 1 and 100. User should be able to sort the gridview based on "Id" and "Name" columns. Write both .aspx and .cs file.

	Name	Data Type
id		int
name		varchar(50)
price		float
qty		float

Fig.Q.1.A.1

<u>Id</u>	<u>Name</u>		
1	Soap	Price: 20 Qty: 1	Update Cancel
2	Powder	Price: 40 Qty: 5	Edit

Fig.Q.1.A.2

- 1B.** With the help of an example explain how repeated value data binding is performed. **5M**
- 1C.** Using any two parameters, explain the difference between session and querystring. **3M**
- 2A.** Write the console application to include the following. Add one class Student with one constructor to create object. Name, registration number, marks for subject 1 and 2 are the members of the Student class. Add one method to Student class to calculate CGPA. Use generics to store the student list. **2M**
- 2B.** With the neat diagram explain Direct data access with ADO.NET. Also explain how to create a database connection. **4M**
- 2C.** What are the differences between server-side and client-side web applications? Explain with diagram. **4M**
- 3A.** Explain ASP.Net page postback processing steps. **2M**
- 3B.** Create a web page as shown in Fig.Q.3.B.1. On clicking the button, card should be generated with name, wish, image and border as shown in Fig.Q.3.B.1. Write both .aspx and .cs file. **5M**
- 3M**

Name:

Wish:

Select Image: Apply Border: ☒

Happy Birthday Bob

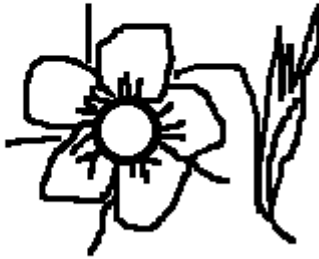


Fig.Q.3.B.1

3C. Explain any two differences between XML and databases. **2M**

4A. Create a web application with master page and one content page. On selecting the item from master page, related content should display in the content page as shown in Fig.Q.4.A.1 and Fig.Q.4.A.2. Use GridView control to display staff selection. Use label to display student names from database. Write aspx, master and cs file. [use only disconnected data access]

Master Page :

Content Page:

ID	Name	Designation
1	ABC	Prof
2	XYZ	Asst Prof
3	PQR	Prof

Fig.Q.4.A.1

Master Page :

Content Page:

AAA

BBB

CCC

Fig.Q.4.A.2

5M

4B. Create an xml file as shown in Fig.Q.4.B.1 using XDocument class.

```
<Product>
  <ID>3</ID>
  <Name>Fresh Fruit Basket</Name>
  <Price>49.99</Price>
</Product>
```

Fig.Q.4.B.1

3M

4C. With a code snippet, explain implementation of custom validator. **2M**

5A. With a code snippet, explain the implementation of the two types of authentication to secure an ASP.NET website? **4M**

5B. Explain the benefits of using AJAX. Explain how AJAX is implemented in ASP.NET. **4M**

5C. Explain the two key differences between Cache object and Application Object? **2M**
