Programme	: B.Tech	Slot	: B2+TB2
Subject	: OPEN SOURCE PROGRAMMING	Duration	: 1 ½ hrs
Subject Code	: ITE1008	Max. Marks	: 50
Faculty	: Prof.S.Subashanthini / Prof.R.Rathi		
Exam Mode	: CLOSED NOTEBOOK		

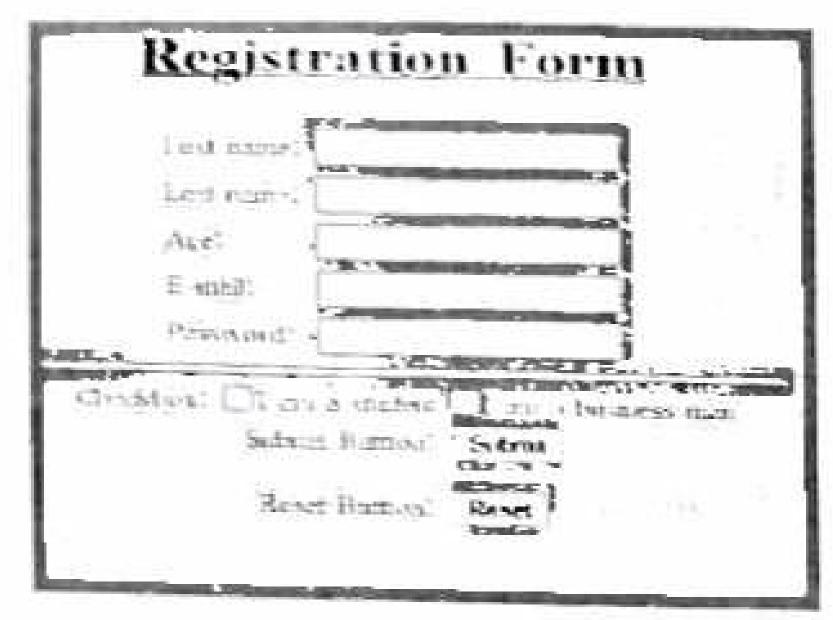## PART-A (Answer ALL the questions) [5*10=50 Marks]

1. Write a PHP script to store the preference of the user on your web page using **(10)** cookies. *Home page* looks like the following web page with the user preferred settings. *Change my setting* web page should allow the user to select font style, font, size, font color, background color. If the user is new to the web page, then it should direct the user to *Change my setting* and on successful submission, home page should be displayed with all the applied effects.

```
┌──────────────────────────────────────────────────────┐
│                                                      │
│  Welcome to my web page                              │
│                                                      │
│                                                      │
│                               Change my setting      │
│                                                      │
└──────────────────────────────────────────────────────┘
```

2.a Creates a new table named as *Customer* to hold the information about the **(4)** restaurant customers in an existing database named as *"Restaurant"*. The table should store the following information about each customer: customer ID, name, phone number, and the ID of the customer's famous dish.

2.b Write a php program that displays a form that allows a customer to enter the **(6)** above mentioned details. The part of the form for entering the customer's favorite dish should be a <select> menu of dish names. The customer ID should be generated automatically. Use *prepared statement* to insert the details into the customer table. Also allow the user to view their preferences by retrieving the values from the table.

3. Design the following form and validate all the fields with the condition given **(10)** below using *regular expressions*

- First name and Last name should contain only alphabetical letters combined with the special character hyphen.
- Age must be a two digit whole number.
- E-mail must be a valid e-mail-id.
- Password must be an alphanumeric with **minimum length as 8 with at** least one special characters

Registration Form

First name:
Last name:
Age:
E-mail:
Password:

Gender: ☐ I am a student ☐ I am a business man

Submit Button: **Submit**

Reset Button: **Reset**

4. Create a user form in HTML to upload a file and write the corresponding PHP **(10)** code with the following conditions:

- It should accept only gif images
- The size should be between 20 kb and 200kb
- Store it in folder D:\FILES
- Display the type of the file, size of the file, **name of the file.**

5. Create two classes named Mammals and MarineAnimals. Create another class **(10)** named BlueWhale which inherits both the above classes. Add constructors to each of these classes to initialize the data member named as *type* with a default value. Create a function in each of these classes which prints "I am mammal", "I am a marine animal" and "I belong to both the categories: Mammals as well as Marine Animals" respectively. Now, create an object for each of the above classes and try calling.

- function of Mammals by the object of Mammal
- function of MarineAnimal by the object of MarineAnimal
- function of BlueWhale by the object of BlueWhale
- function of each of its parent by the object of BlueWhale

Also *illustrate* how to invoke the parent class constructor from child class.