Course Code: BCA-406   Course Title: LAB II (Web Technology)
Total Contact Hours: 48 hrs.   Total Credits: 04
Total Marks: 100

Note that these are only sample assignments. Teachers may conduct practical's by preparing similar types of examples

Sample Assignments on HTML And CSS

1) Create an html page with following specifications

   a) Title should be about MYFAMILY
   b) Put image of your sweet home in the background
   c) Place address at the bottom in smaller size

   d) Add names of family members in a different color, style and typeface
   e) Add scrolling text with a message of your choice

   f)   Add family photo at the top.
   (Use appropriate header and footer for the page)

2) Create an html page with following specifications
   a) Title should be about MYINDIA

   b) Place country map in the background.
   c) Add at least 5 state names each in a different color, style and typeface
   d) Add images of each state at the bottom.

3) Write HTML code to design a web page displaying list of hyperlinks. Divide the browser screen into two frames. The frame on the left will be an image. The frame on the right will be a menu consisting of hyperlinks. Clicking on any one of these hyperlinks will display related information as a new page which must be open in frame on the right hand side.

Welcome to Savitribai Phule Pune University	
Image	• About Us • Placement cell • Sports

4) Write HTML code to display following train details using table.

Train name	Starting place	Destination place	Time		Fare
			Arrival	Departure	

(**Insert at least 5 records**)

5) Write HTML and CSS code to design a web page. Divide the browser screen into two frames. The first frame will display the heading. Divide the second frame into two columns that will display the information as shown below.

Use External style sheet with appropriate attributes to display information of each frame.

Department of Science	
Subjects for different Semester of B.C.A.(Sci.) course • **F. Y. B. C. A (Sci.)** • **S. Y. B. C. A (Sci.)** • **T. Y. B. C. A (Sci.)**	**F. Y. B. C. A (Sci.)** • **Sem I** Fundamentals of Computer Basic C Programming • **Sem II** Advance C DBMS

6) Write HTML and CSS code to design a web page. Divide the browser screen into two frames. The first frame will display the heading. Divide the second frame into two columns. The first column will display hyperlinks. After clicking on each hyperlink related information should be displayed in the second column in table format.

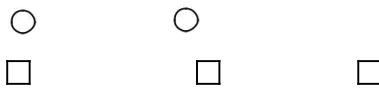Use style sheet with appropriate attributes to display information of each frame.

List of the Players

	Name of the Game	List of the Players
Country		
1. India		
2. England	Cricket	Sahin Tendulkar
		Virat Kohali
3. Australia		M. S. Dhoni
	Tennis	Saniya Mirza
		Soniya Nehval
		Mahesh Bhupati

Sports Details

7) Write HTML code to design the following form.

Personal Information

First Name :

Last Name :

Address :

Mobile Number

Gender   Male   Female

Your Interests   Computer   Sports   Music

SUBMIT   *RESET*

8) Write HTML to design the following output.

User Information

Name :

Gender : ○ Male   ○ Female

Age :
0-10 ▼

Hobbies :

Watching
TV

Cricket

9) Create an html page with following specifications
   a. Title should be about COLLEGE WEB SITE . Put the windows Logo image in the background Place College name at the top of the page in large text.

   b. Add names of courses offered each in a different color, style and typeface.

   c. Add scrolling text with a welcome message.

   d. Add college image at the bottom. (Use external CSS)

10) Write HTML and CSS code to design a web page displaying list of hyperlinks. Divide the browser screen into two frames. The first frame will display the heading. Divide the second frame into two columns. The frame on the left will be a menu consisting of hyperlinks. Clicking on any one of these hyperlinks will display related information as a new page which must be open in frame on the right hand side.

   Use Inline style sheet with appropriate attributes to display information of each frame.

IT Industries in INDIA

City	Pune
1.Pune	• Infosys
2.Bangalore	• TCS
3.Hyderabad	• Tech-Mahindra
4.Delhi	• Persistent

11) Write HTML code to design a website for Online Shopping. Design two pages which contains hyperlink to each other. All pages must have different background.

   Divide the first home page horizontally into two frames. The first frame contains logo and name of the shopping site. Divide the second frame vertically in two frames out of which First(right) frame displays two hyperlink images such as Mobiles, Car and second(left) frame displays information about shopping site in scrolling form.

   Divide the second page vertically in two frames. The first frame displays Category list (which are again hyperlinked) clicking on any one of these hyperlinks will display related information (Image, Name of the Model & Price) of the category in a second frame.

12) Write HTML code to design a website for Flight Reservation.

Logo

AirIndia

India

Manage Your Trip

H ome

Booking Information

From :

To :

Departure Date :

Returning Date :

Adults | Children | economy

1 to 9 | 0 to 9 | Executive

E

First

Book Now

13) Write HTML code to design a website of Facebook. Design

```
┌────────────────────────────────────────────┐
│   Welcome to Ivan Bayross          Logout   │
├──────────┬─────────────────────────────────┤
│          │  Raj shared this link            │
│  Home    │  ┌───────────────────────┐      │
│          │  │    Im                 │      │
│  Profile │  │                       │      │
│          │  └───────────────────────┘      │
│          │                                  │
│          │  ┌──────┐   ┌──────┬──────────┐ │
│          │  │ Like │   │Share │ Comment  │ │
│          │  └──────┘   └──────┴──────────┘ │
└──────────┴─────────────────────────────────┘
```

14) Write HTML code to divide the web page into different frames and each frame will display the text as shown below.

```
┌────────────────────────────────────────────┐
│                                            │
│                                            │
├──────────┬─────────────────┬───────────────┤
│          │                 │               │
│          │                 │               │
├──────────┴─────────────────┴───────────────┤
│                                            │
│                                            │
└────────────────────────────────────────────┘
```

15) Write HTML code to display calendar of the current month.

☐ Introduction to JavaScript

1) Write JavaScript Program to accept number from user and check whether it is Palindrome or not.

2) Write a JavaScript program that accepts a string from user. pass this string as parameter to a function name 'check_vowel' on button click event and return the count of number of vowels within the string.

3) Write JavaScript Program to accept 1 to 7 numbers from user and display appropriate Weak of the day.

4) Write a JavaScript code for counting odd, even, prime numbers from 1 to100

5) Write a JavaScript program to read employee details and generate pay slip which will calculate net salary of an employee.

Payslip

Name of Employee: _____
Department _____
Designation: _____
Basic Salary _____
HRA _____
DA _____

[Submit]

□ Function in JavaScript

1) Write JavaScript function to display Clock in the textbox.

2) Write a JavaScript function to accept First Name and Last Name from user. Display users entered information.

   [Hint: use alert and prompt dialog box]

3) Write a JavaScript program to Display current Day, Date, Month, Year and Time on the web page and greet the user accordingly.

□ Validation in JavaScript

1) Write a JavaScript to accept email address from user and count number of @ occurrences and number of Dot (.) occurrences.

2) Write a JavaScript code for accepting name and mobile number from user. (use validations).

3) Required Validations are: Name text field should not accept numbers, special characters, alphanumeric characters, length should be 20 characters.

4) Mobile number text field should not accept characters, special characters, alphanumeric characters, length should be 10 digits

5) Write a JavaScript code for accepting user name and password (use validations).

6) Required Validations are: User name text field should not accept numbers, special characters, alphanumeric characters, length should be 20 characters.

7) Password text field length should not be less than 3 characters.

8) Write a JavaScript code for calculating bills. If quantity is less than 5 then there is any discount, If quantity is greater than 5 and less than 25 then discount is 5%, If quantity is greater than 25 and less than 50 then discount is 15%, If quantity is greater than 50 discount is 20%.

9) Write a JavaScript code to accept number from user. Make all validation and print that number in reverse order.

10) Write a JavaScript code to calculate maximum, minimum, sum and average of numbers in an array. Make all validation.

11) Write a JavaScript program to design student registration form and perform following validation:
    a. Check all fields should not contain a null value
    b. Check name field contains only alphabets
    c. Mobile No. field should be of 10 digits.
    d. Pin code field should be of 06 digits.

Student Registration form

Name of Student:
Mobile No.
Address Line:
City:
State
Pincode

Submit   Reset

☐ Introduction to PHP

1) Design a HTML form to accept two numbers from the user and write a PHP script to display multiplication table of that range in tabular format.

2) Design a HTML form to accept a number from the user and write a PHP script to display digits of a number in word.(e.g 123 one two three)

3) Design a HTML page for the following (Accept input from user, use radio buttons)
    a. Area of circle

    b. Circumference of Circle

    c. Volume of Sphere.

4) Write a PHP script to Perform selected action.(use switch case)

5) Design a HTML page for the following (Accept input from user, use radio buttons)

    a. Area of square

b. Area of Rectangle

　　　c. Area of Triangle
6) Write a PHP script to Perform selected action.(use switch case)

7) Design a HTML page an integer number and write a PHP script to count the number of digits and also calculate sum of digit in the number.

8) Write a PHP script for the following: Design a form to accept two strings. Compare them using (= =, === operator). Append second string at the end of first string.

9) Design a HTML page to check for the following (Accept input number from user, use radio buttons)

　　　a. Prime
　　　b. Armstrong

　　　c. Perfect
10) Write a PHP script to perform selected action (use switch case)

11) Write a PHP script to change Background color of the browser using switch statement according to a day of the week.
12) Write a PHP script to set selected image from Combo Box (DropDownList) to the background of Page.

□ Array in PHP

1) Write a PHP script to define an associative array for the New user login with the details: Username, Password, Age, Qualification and Phone number. Create an associative array to store the user input and display it on other form. Check the validations for no field are left blank and age not less than 12. Design necessary screen layouts for the same. **Concept Used:** Associative array, form validations.

2) Write a menu driven program to perform the following operations on an associative array(Use Radio Buttons , use pre defined Array)
　　　a. Display the elements of an array along with the keys.
　　　b. Display the size of an array
　　　c. Delete an element from an array from the given key/index.

3) Write a menu driven program to perform the following operations on an associative array(Use Radio Buttons , use pre defined Array)

　　a) Reverse the order of each element's key-value pair [use array_flip()].

b) Traverse the elements in an array in random order [use Iterator function].
c) Sort the array by values.

4) Accept a string from the user and display letter for given position number (Using array built-in functions).

5) Declare a Multidimensional Array. Display specific element from a Multidimensional array. Also delete given element from the Multidimensional array.(After each operation display array content [Hint : use print_r()]

6) Define an array. Find the elements from the array that matches the given value using appropriate search function.

7) Write a menu driven program to perform the following stack and queue related operations:[Hint: use Array_push(), Array_pop(), Array_shift(), Array_unshift()]

   a)   Insert an element in stack

   b) Delete an element from stack
   c) Display the contents of stack

8) Write a menu driven program to perform the following operations on associative arrays:
   a) Sort the array by values in ascending, descending order.

   b) Sort the array by values without changing the keys.
   c) Filter the odd elements from an array.

9) Write a menu driven program to perform the following operations on associative arrays:

   a) Merge the given arrays.

   b) Find the intersection of two arrays.

   c) Find the union of two arrays
   d) Find set difference of two arrays.

10) Design a HTML page to accept elements of two matrices of same order (use two text box) and write a PHP script to display addition and multiplication.(use array_chunk)

11) Write a menu driven program to perform the following stack and queue related operations:[Hint: use Array_push(), Array_pop(), Array_shift(), Array_unshift()]

   a) Insert an element in queue

b) Delete an element from queue

12) Design a HTML page to accept string and write a PHP script to filter all vowels from the string. (use Array_filter)

□ **Function in PHP**

1) Design a HTML form to accept a number from the user and write a PHP script to find Factorial of a number using user defined function.

2) Design a HTML form to accept three numbers from the user and write a PHP script to find largest of those three numbers using Anonymous function.

3) Design a form to accept the input values from the user for Bank Loan and write a PHP script using functions to calculate the EMI amount, Number of EMIs and the final amount of payment (addition of all EMIs).

Bank Loan		EMI Plann	
Loan A_C.No		Loan amount	: _____
Loan-Amt		EMI Amount:	_____ _
Interest			

4) Write a PHP script for the following: Design No.of a EMI: form to accept a string. Write a function to count the total number of vowels (a, e, i, o, u) from the Period Final Amount: string. Show the occurrences of each vowel from the string. Check whether the given string is a palindrome or not, without using built-in function.
   (Use radio buttons and the concept of function. Use 'include' construct or Submit Reset require stmt.)

5) Write a PHP script for the following: Design a form to accept two numbers from the user. Give options to choose the arithmetic operation (use radio buttons). Display the result on the next form. (Use the concept of function and default parameters. Use 'include' construct or require stmt)

6) Write a PHP script for the following: Design a form to accept the details of 5 different items, such as item code, item name, units sold, rate. Display the bill in the tabular format. Use only 4 text boxes. (Hint : Use of explode function.)

7) Write a PHP script for the following

    a. design a form to accept two numbers form user

    b. Give option to choose an arithmetic operation (use radio Button)

    c. Display the result on next form

    d. use the concept of default parameters

8) Write a PHP script to change the preferences of web page like font size, font style, font color. Display the selected setting on next page

9) Design a HTML form to accept two strings from the user. Write a PHP function to find whether the small string appears at the start of the large string.Provide a text box to accept the string that will replace all occurrences of small string present in the large string. Also split the large string into separate words. (Use regular expressions)

10)   Design a HTML form to accept two strings from the user. Write a PHP function to find the first occurrence and the last occurrence of the small string in the large string. Also count the total number of occurrences of small string in the large string. Provide a text box to accept a string, which will replace the small string in the large string. (Use built-in functions)

Design a HTML form to accept two numbers from the user. Give options to choose the arithmetic operation (use radio buttons). Write a PHP function to display the result on the next form. (Use the concept of function and default parameters)