Third Year B.C.A. (Science) Semester V
(To be implemented from Academic year 2017-18)
Course Code: BCA-506   **Course Title: LAB II (Adv. Web Technology)**
Total Contact Hours: 48 hrs.   **Total Credits: 04**
Total Marks: 100
Note that these are only sample assignments. Teachers may conduct practicals
by preparing similar types of examples
PHP Slips for T Y BCA

1) Write class declarations and member function definitions for an
    employee(code, name, designation). Design derived classes as
    emp_account(account_no, joining_date) from employee and
    emp_sal(basic_pay, earnings, deduction) from emp_account.
    Write a PHP Script to create 5 objects (pass details using __Construct () constructor) and
Display details Employees who having Maximum and Minimum Salary.

2) Define an interface which has methods area(), volume(). Define constant PI. Create a class
    cylinder which implements this interface and calculate area and volume. (Use define())

3) Derive a class square from class Rectangle. Create one more class circle. Create an
    interface with only one method called area(). Implement this interface in all the classes.
    Include appropriate data members and constructors in all classes. Write a program to accept
    details of a square, circle and rectangle and display the area.

4) Create an abstract class Shape with methods calc_area( ) and calc_volume( ). Derive three
    classes Sphere(radius) , Cone(radius, height) and Cylinder(radius, height), Calculate area
    and volume of all. (Use Method overriding).

5) Define a class Employee having private members – id, name, department, salary. Define
    parameterized constructors. Create a subclass called "Manager" with private member
    bonus. Create 6 objects of the Manager class and display the details of the manager having
    the maximum total salary (salary + bonus).

6) Write a PHP Script to create a super class **Vehicle** having members Company and price.
    Derive 2 different classes LightMotorVehicle (members – mileage) and
    HeavyMotorVehicle (members – capacity-in-tons). Define 5 Object of each subclass and
    display details in table format.

7) Write PHP script for the following: Define Class declarations and member function
    definitions for Student(rollno, name, academic_year). Design derived classes as
    Internal(marks, total), External(marks, total). Perform the following operations and show
    the results: Accept the details from the user and Show the result along with all details and
    total marks as addition of marks of Internal and External.

8) Write a script to keep track of number of times the web page has been accessed(use
    $_COOKIE).

9) Create a login form with a username and password. Once the user logs in, the second form should be displayed to accept user details (name, city, phoneno). If the user doesn't enter information within a specified time limit, expire his session and give a warning otherwise Display Details($_SESSION).

10) Create a form to accept student information (name, class, address). Once the student information is accepted, accept marks in next form (Java, PHP, ST, IT, pract1, and project). Display the mark sheet for the student in the next form containing name, class, marks of the subject, total and percentage(Use $_COOKIE).

11) Write a program to create a shopping mall. User must be allowed to do purchase from three pages. Each page should have a page total. The fourth page should display a bill, which consists of a page total of whatever the purchase has been done and print the total. (Use $_SESSION).

12) Create a form to accept customer information (name, address, ph-no) (use Java Script to validate fields).Once the customer information is accepted, accept product information in the next form(Product name, qty, rate). Display the bill for the customer in the next form. Bill should contain the customer information and the information of the products entered.

13) Write a PHP script to accept username and password. If in the first three chances, username and password entered is correct, then display second form with well come massage, otherwise display error message.

14) Create student registration form and display details in the next page. (Use sticky form concept).

15) Write a PHP Script to display Server information in table format (Use $_SERVER).

16) Write a PHP Script to Upload the file and display its information.(use $_FILES).

17) Write a PHP program to accept username and password from the user. Validate it against the login table in the database. If there is a mismatch between username and password, then, display the error message as ―invalid user name and password‖, else display the message as ―Login successful‖ on the browser.

18) Write a PHP program to implement Create, Read, Update and Display operations on Employee table with attributes(empno, empname, dateOfJoin, address, salary). **(Use Radio Buttons)**

19) Consider the following relational database:
    Project (Pgroupno, ProjectTitle)
    Student (Seat no, Name, Class, Pgroupno)

Write a PHP script to accept project title and display list of students those who are working in a particular project.

20) Consider the following entities and their relationships

Emp (emp_no,emp_name,address,phone,salary)
Dept (dept_no,dept_name,location)

Emp-Dept are related with one-many relationship
Create a RDB in 3NF for the above and solve following
Using above database write a PHP script which will

   a) Insert employee records in table .
   b) Print a salary statement in the format given below, for a given department. (Accept department name from the user).

Maximum Salary	Minimum Salary	Sum Salary

21) Consider the following entities and their relationships

Doctor (doc_no, doc_name, address, city, area)
Hospital (hosp_no, hosp_name, hosp_city)

Doctor and Hospital are related with many-many relationship
Create a RDB in 3 NF for the above and solve following

Using above database, write a PHP script which accepts hospital name and   print information about doctors visiting / working in that hospital in tabular format.

22) Consider the following entities and their relationships

Movie (movie_no, movie_name, release_year)
Actor (actor_no, name)

Relationship between movie and actor is many – many with attribute rate in Rs. Create a RDB in 3 NF for the above and solve following Using above database, write PHP scripts for the following:
   (Hint: Create HTML form having two radio buttons)
   a) Accept actor name and display the names of the movies in which he has acted.
   b) Insert new movie information.

23) Consider the following entities and their relationships

BillMaster(billno, custname, billdate)
BillDetails(itemname, qty, rate, discount)

BillMaster and BillDetails are related with one-to-many relationship.
Create a RDB in 3 NF for the above and solve following
Write PHP script to print the bill in following format Accept the Bill number from user.

BillNo :   **BillDate :**

Customer Name :

SrNo	Particular	Quantity	Rate	Discount	Total

Gross Amount :

24)   Write a script to create XML file named "Rajashree.xml"
The element details of "Rajashree .xml" are:

```
<Rajashree Productions>
        <Movie>
            <MovieName>……….</MovieName>
            <Actor Name>…………</ActorName>
            <ReleaseYear>…………</ReleaseYear>
        </Movie>
</RajashreeProductions>
```

Store details of at least 5 movies which got released during   1990-2015.

25)   Write a PHP script to generate an XML in the following format

```
<?xml version = "1.0" ?>
<BookStore>
        <Books>
            <PHP>
                    <title>Programming PHP</title>
                    <publication>O'RELLY</publication>
            </PHP>
            <PHP>
                    <title>Beginners PHP</title>
                    <publication>WROX</publication>
            </PHP>
        </Books>
</BookStore>
```

26)   Create a XML file which gives details of books available in " ABC Bookstore" from
following categories.
                 1) Technical
              2) Cooking
              3) Yoga
and elements in each category are in the following format

```
<Book>
        <Book_PubYear> --------------</Book_PubYear>
        <Book_Title>    --------------</Book_Title>
        <Book_Author> ---------------</Book_Author>
</Book>
```

Save the file as "Book.xml"

Create an application that reads "Book.xml" file into simple XML object. Display attributes and
elements.

(Hint: Use simple_xml_load_file() function)

27)   Write a script to solve following questions (Use "Book.xml" file)
a) Create a DomDocument object and load this XML file.
b) Get the output of this Document to the browser
c) Save this [. XML] document in another format i.e. in [.doc]
d) Write a XML program to print the names of the books available in "Book.xml" file.

28)   Write a script to create "cricket.xml" file with multiple elements as shown below:

```
<CricketTeam>
    <Team country="India">
        <player>____</player>
        <runs>_____</runs>
        <wicket>____</wicket>
    </Team>
</CricketTeam>
```

Write a script to add multiple elements in "cricket.xml" file of category, country="Australia".

29)   Write a PHP script to accept an .XML file which should comprise the following:

```
<cricket>
    <player>abc</player>
    <runs>1000</runs>
    <wickets>50</wickets>
    <noofnotout>10</noofnotout>
</cricket>
```

For at least 5 players. Display the details of players who have scored more than 1000 runs and at least 50 wickets.

30)   Link this "Rajashree.xml" file to the CSS style sheet and get well formatted output as given below.
        a)MovieName :
                Color: black,
                    Font-family: Copperplate Gothic Light;
                    Font Size: 16 pts;
                    Font:Bold;
        b)ActorName and ReleaseYear:
                    Color: Red;
                    Font-family: Bodoni MT;
                    Font Size: 12 pts;
                    Font: Bold

31)   Write a php script using AJAX concept, to give Hint to user when he/she type city name in the text field.

32)   Write a PHP script using AJAX concept, to check user name and password are valid or Invalid (use database to store user name and password).

33)   Write a PHP script using AJAX concept, to develop user-friendly and interactive search engine.