

**Savitribai Phule Pune University**  
**T.Y.B.Sc.(Cyber and Digital Science)-Sem-VI April-2024-25**  
**CDS-366 Lab on CDS-363 Web Science**

**Time :3 Hours**

**Max. Marks: 35**

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- Q.1 Design a webpage for the following layout For Student profile – where student roll number, name, contact, photo, class and area of interest in column 2. In Colum 1 provide the hyperlinks for Home, Contact us and about us. **[15M]**
- Q.2 Create a login form with a username and password. Display “Welcome” message if **[15M]** username and password is same otherwise display “Invalid username or password” message.
- Q.3 Viva **[5M]**

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- Q.1 Write a script to create XML file named “Subject.xml” Stored at least 3 records containing subject id, subject name, class, semester etc. **[15M]**
- Q.2 Using SQL injection attack on Login check whether you can log into another user’s account without knowing the correct password. **[15M]**
- Q.3 Viva **[5M]**

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Q.1 Write a script to create “cricket.xml” file with multiple elements as shown below: **[15M]**

```
<Cricket Team>
<Team Country =“Australia”>
<Player>-----</Player>
<Runs>-----</Runs>
<Wicket>-----</Wicket.
</Team>
</Create Team>
```

Write a script to add multiple elements in “cricket.xml” file of category ,”country=India”

Q.2 Write a simple web service called Dairy Product Price Service. This keeps a Draft I Syllabus Page 44 dairy product price table to record the different kinds of product prices. It will supply 3 services to the client so that clients can add product price, delete product price, update product prize. **[15M]**

Q.3 Viva **[15M]**

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- Q.1 Write a program to access online weather API. [15M]
- Q.2 Design an application to accept username and password. While accepting password check whether is it made of numbers, alphabets, special symbols and password length should be greater than 8. If password is as per requirement, then print “You enter red strong password” else print error message “Enter complex password”. [15M]
- Q.3 Viva [5M]

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- Q.1 Design an application that accept the full name, contact number, email-id, password and confirm password. If password and confirm password matched the store accept data into database while storing password encrypt it. **[15M]**
- Q.2 Design a webpage for the following layout For Student profile – where student roll number, name, contact, photo, class and area of interest in column 2. In Column 1 provide the hyperlinks for Home, Contact us and about us. **[15M]**
- Q.3 Viva **[5M]**

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- Q.1 Write a PHP program to write a program for find the given number is palindrome  
Or not. [15M]
- Q.2 Create a XML document which contains details of cars car like: id, company name, model  
engine and mileage and display the same as a table by using element by using XSLT. [15M]
- Q.3 Viva [5M]

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**Q.1** Create the following relations : Emp(eno,name,dno,salary) Project(pno,pname,control-dno,budget) Each employee can work on one or more projects, and a project can have many employees working in it. The number of hours worked on each project by an employee also needs to be stored. **[15M]**

1. list the names of Project names whose budget is greater than 10000.
2. list the names of projects, controlled by department No 101.
3. list the details of the projects with second maximum budget
4. list the details of the projects with maximum budget. 5. list the names of employees, working on E&TC department.

**Q.2** Write a program to access online weather API. **[15M]**

**Q.3** Viva **[5M]**

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- Q.1 Create an html page with 7 separate lines in different colors. State color of each line in its text. **[15M]**
- Q.2 Design an application to accept username and password. While accepting password check whether is it made of numbers, alphabets, special symbols and password length should be greater than 8. If password is as per requirement, then print “You enter red strong password” else print error message “Enter complex password”. **[15M]**
- Q.3 Viva **[5M]**



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Q.1.Design a HTML form for Bus Ticket Reservation consisting of fields for Name, Address, contact no, source station(Dropdown list), Destination station, Date of booking, date of journey, no of passenger, name of passenger, gender of passenger etc. (Use proper alignment) **[15M]**

Q.2.Design an HTML form for customer registration visiting a departmental store. Form should consists of fields such as name, contact no ,gender, preferred days of purchasing, favorite item(to be selected from a list of items),suggestions etc.. You should provide button to submit as well as reset the form contents. **[15M]**

Q.3 Viva **[5M]**

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Q.1. Write a script that generates an XML file named “Student.xml” containing at least 5 student records. Each record should include the following data: **[15M]**

- Student ID
- Student Name
- Age
- Gender
- Program

Q.2. Write a script to create an XML file called “Employees.xml” containing records for 5 employees. Each record should contain: **[15M]**

- Employee ID
- Name
- Position
- Department
- Date of Joining

Q.3 Viva **[5M]**

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1. 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 “Welcome message” otherwise display error message. [Use Session] **[15M]**

2. Write a PHP script to accept Employee details (Eno, Ename, Address) on first page. On second page accept earning (Basic, DA, HRA). On third page print Employee information (Eno, Ename,Address,Basic, DA, HRA, Total) **[15M]**

Q.3 Viva **[5M]**

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Q1. Design HTML form to accept dimension of a cylinder and write a PHP script to

Calculate the area and volume of Cylinder using a function . **[15M]**

Q2. Design HTML form to accept two strings and following three options (use radio button)

and write a PHP script to perform the selected operations on String. **[15M]**

a. Compare 2 strings

b. Convert string into Uppercase

c. Convert string into Lowercase

Q3. Viva **[5M]**

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Q.1 Design a HTML form to accept a number and write a PHP script to display each digit of a number in words. **[15M]**

Q.2 Design a HTML form to accept a number and write a PHP script to display each digit of a number in words. **[15M]**

Q.3. Viva **[5M]**

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Q.1. Create a PHP program where the user can select items from a product list (e.g., books, pens, or bags) and input quantities. **[15M]**

Display:

The selected items with their unit price.

The total quantity of items.

The total cost.

Q.2 .Explain OWASP Top 10 threats for web introduction. **[15M]**

Q3. Viva **[5M]**

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Q 1. Write a short report explaining:

[15M]

- a) The identified threat.
- b) How the threat was exploited.
- c) The steps you took to mitigate the vulnerability.

Q.2. Write a script to create an XML file called; "Timetable. xml" containing 3 records for a weekly class timetable. Each record should include:

[15M]

- Day of the Week
- Class Name
- Instructor
- Time Slot
- Classroom

Q3. Viva

[5M]

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Q.1. Using SQL injection attack on Login checks whether you can log into another user's account without knowing the correct password. **[15M]**

Q.2. Write a short note Burp Suite Scanner with an example. **[15M]**

Q3. Viva **[5M]**



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1. Create a PHP program where the user can select items from a product list (e.g., books, pens, or bags) and input quantities. **[15M]**

Display:

- The selected items with their unit price.
- The total quantity of items.
- The total cost.

Q.2. Write a script to generate an XML file called &"Course Registrations.xml"; that stores 5 records of students registering for courses. Each record should contain: **[15M]**

- Registration ID
- Student Name
- Course Name
- Instructor
- Date of Registration

Q3. Viva

**[5M]**

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Q 1. Write a script to create “breakfast.xml” file with multiple elements as shown below: French Fries Rs45 Young youths are very much interested to eat it 650 Write a script to add multiple elements in “breakfast.xml” file of category, Juice. [15M]

Q.2 Perform SQL injection to modify another user profile data through an UPDATE query.[15M]

Q.3. Viva [5M]

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Q.1 Design HTML form to accept book details (bno, bname and price) from user. Write a PHP script to store input information in MySql book table. **[15M]**

Q.2. Write a simple web service called Dairy Product Price Service. Dairy product price table to record the different kinds of product prices. It will supply 3 services to the client so that clients can add product price, delete product price, update product price. **[15M]**

Q3. Viva **[5M]**

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Q.1. Create a simple web service called Library Book Service. It should manage a table of books and their details (title, author, genre, and price). The service must provide the following . [15M]

functionalities:

- Add Book: Add a new book to the table.
- Delete Book: Remove a book based on its ID.
- Update Book: Modify the details of an existing book.
- Get Book Details: Retrieve details of all books or a specific book by ID.

Q.2 Design an application to register a user and securely store their information. [15M]

Scenario:

Create a program that accepts the following details from a user:

- Full Name
- Contact Number
- Email ID
- Password

Confirm Password

Q.3. Viva [5M]

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Q1 Design HTML form to accept a number and write a PHP script to calculate the factorial of a number using function. [15M]

Q.2 Write a short note on OWASP ZAP scanner and give one example. [15M]

Q.3. Viva [5M]

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Q.1 Write down OWASP Top 10 threats for API . [15M]

Q.2 Design an application to accept username and password. While accepting a password check whether it is made of numbers, alphabets, special symbols and password length should be greater than 8. If password is as per requirement, then print “You entered strong password” else print error message “Enter complex password”. [15M]

Q3. Viva [5M]

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Q.1. Design a webpage for an Employee Profile, where the second column contains the employee details . **[15M]**

- o Employee ID
- o Name
- o Designation
- o Department
- o Email
- o Photo

In the first column, provide hyperlinks for Home, About Us, and Contact HR.

Extend the above question:

If the user clicks on the Contact HR link, display the HR department, email and phone number.

Create a form to accept new employee details, including:

o Name, Employee ID, Designation, Department, Email, and Phone Number.

Q.2. Create a feedback form with the following fields: **[15M]**

Name

Email

Feedback message

A rating (1–5 stars)

Upon form submission, display the user's name, email, and feedback along with a dynamically generated star rating (e.g., if the rating is 4, display 4 stars).

Q3. Viva **[5M]**

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Q.1 .Write a script to create an XML file called “Timetable.xml” containing 3 records for a weekly class timetable. Each record should include: **[15M]**

- Day of the Week
- Class Name
- Instructor
- Time Slot
- Classroom

Q.2 Write a program that uses a currency exchange API (e.g., Exchange Rate-API or Fixer.io) to perform the following: **[15M]**

- Convert a specified amount from one currency to another.
- Display the exchange rate for a given currency pair.
- Handle invalid currency codes or API errors gracefully.

Q3. Viva

**[5M]**



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Q.1 Show the SQL injection attack on UPDATE statement, you need to make an unauthorized modification to the database by modifying another user's profile. **[15M]**

Q.2 Write a script to create "cricket.xml" file with multiple elements as shown below: Write a script to add multiple elements in "cricket.xml" file of category, country="Australia" **[15M]**

Q3. Viva **[5M]**

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Q.1 Write a script that generates an XML file named “Student.xml” containing at least 5 student records. Each record should include the following data: **[15M]**

- Student ID
- Student Name
- Age
- Gender
- Program

Q.2 Create a simple web service called Library Book Service. It should manage a table of books and their details (title, author, genre, and price). The service must provide the following functionalities: **[15M]**

- Add Book: Add a new book to the table.
- Delete Book: Remove a book based on its ID.
- Update Book: Modify the details of an existing book.

Get Book Details: Retrieve details of all books or a specific book by ID.

Q3. Viva **[5M]**