**Unit 1: Client-Side Scripting**

1. Define client-side scripting. Why is it important in web development?
2. Explain how to embed JavaScript in an HTML file.
3. What is the difference between <script> and <noscript> tags in JavaScript?
4. List and explain different types of operators in JavaScript with examples.
5. What are arrays in JavaScript? How is the forEach loop used with arrays?
6. Explain the Document Object Model (DOM) and its role in JavaScript.
7. Write a JavaScript function to validate a form with specific fields like name, email, and password.
8. What is the purpose of cookies in JavaScript? Write a script to set and retrieve a cookie.
9. Describe the concept of event handling in JavaScript with an example.
10. Write a JavaScript program to display the current date and time using the Date object.

**Unit 2: Server-Side Scripting with Database Connectivity**

**PHP**

1. Explain the need for server-side scripting languages. How does PHP fulfill this need?
2. Write the syntax for handling GET and POST requests in PHP with an example.
3. Explain how sessions are managed in PHP with a practical example.
4. What are PHP include files? Why are they used? Provide an example.
5. Write a PHP script to upload a file to the server.
6. Differentiate between $\_GET, $\_POST, and $\_REQUEST with examples.

**MySQL**

1. Write the syntax to connect to a MySQL database using PHP and close the connection.
2. Explain aggregate functions in MySQL with examples.
3. Write SQL queries for the following:
   * Insert a new record into a table.
   * Update a specific field in a record.
   * Delete a record based on a condition.
4. What is a JOIN in MySQL? Explain its types with examples.

**Unit 3: Advanced Server-Side Scripting**

**Object-Oriented Programming in PHP**

1. Explain the concept of classes and objects in PHP with examples.
2. What are constructors and destructors in PHP? Provide examples of their usage.
3. Discuss inheritance in PHP. Write a program to demonstrate it.
4. How is exception handling done in PHP? Provide examples.

**AJAX**

1. What is AJAX? How does it enhance user experience in web applications?
2. Write an example of an AJAX call using PHP and MySQL to fetch data from a database.

**jQuery**

1. Explain the role of jQuery in web development. How does it simplify JavaScript coding?
2. Write a script using jQuery to hide and unhide an image on a button click.

**CMS (Joomla and WordPress)**

1. What is a CMS? Compare Joomla and WordPress.
2. Explain the steps to install Joomla and manage its backend.
3. What are Joomla extensions? Describe their role and usage.
4. Explain how to manage posts and widgets in WordPress.