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**Kalinga University**

**Department of Computer Science**

**Assignment-IV**

**Course: BCA Semester: III**

**Subject: Web Development with PHP Subject Code: BCA305**

**Note: Attempt all questions**

**Short Questions-1, 2 & 3**

**Long Questions- 4 & 5**

**Instructions:**

**For short answer type questions, answer limit is 50 to 100 words.**

**For long answer type questions, answer limit is 250 to 300 words.**

**Note: Attempt all questions**

1 What HTML tag is used to define a table structure on a web page?

2 What is the primary purpose of MySQL in the context of web development?

3 Explain the process of normalization in database design. Provide examples of different normalization forms (e.g., 1NF, 2NF, 3NF) and discuss the benefits of each in improving data integrity and reducing redundancy.

4 Describe the role and usage of the JOIN operation in SQL. Provide examples of different types of joins (e.g., INNER JOIN, LEFT JOIN, RIGHT JOIN) and explain when each type is appropriate to use in querying relational databases.

5 Discuss the steps involved in connecting a PHP script to a MySQL database using the MySQLi extension. Include details on establishing the connection, executing SQL queries, handling query results, and managing errors. Provide a practical example scenario where PHP interacts with a MySQL database to retrieve and display data.