UNIVERSITY OF THE PUNJAB

BS Information Technology (5th Semester)- Fall 2024

Subject: Web Technologies   **Paper Code**:DI-322L **Marks**:100

Time:3Hrs

THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

QUESTION 1: **(Marks : 20)**

Explain the concept of Java Database Connectivity (JDBC) and describe its components. Write a Java program that demonstrates how to connect to a MySQL database, execute a simple SQL query to retrieve data from a table, and display the results.
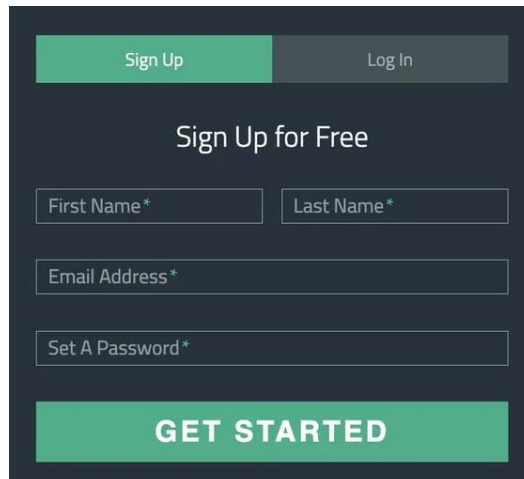
QUESTION 2: **(Marks : 20)**

Create an HTML form according to the given example.
Apply CSS as mentioned:
- Background color : Dark Green
- Button colors: Light green
- Input field color : Dark grey
- Text color : White

QUESTION 3: **(Marks : 20)**

Explain the concept of the following: (Any 1)
- Servlet Life Cycle
- MVC Architecture

QUESTION 4: **(Marks : 20)**

Write a **Java** program that take input from the user, Calculate and generate output accordingly. The program must have these methods:
- **Addition();**
- **Multiplication();**
- **Subtraction();**
- **Division();**

QUESTION 5: **(Marks : 20)**

VIVA VOCE