CHAPTER 3

**Theory Questions:**

1. **Difference between Variables and Constants:**
   * **Variables** are storage locations that can hold different values during the execution of a program. You can change the value of a variable.
   * **Constants** a value or an identifier whose value cannot be altered during execution of a program.
2. **Four Data Types in PHP:**
   * **String**: Used to store sequences Of Characters inside quotation
   * **Integer**: Used to store whole numbers (both positive and negative) without decimal points
   * **Float (Double)**: Used to store numbers with decimal points.
   * **Boolean**: Represents two possible states: true or false.
3. **Purpose of the NULL Data Type:**
   * To indicates that a variable has been declared but not assigned any specific value.
4. **Strongly and Loosely Typed Programming:**
   * **Strongly Typed**: Every variable must be declared with a data type and data type cannot be changed after declaration.
   * **Loosely Typed**: Does not require a variable to be defined, you can declare it but it doesn’t require you to classify the type of variable
5. **Concatenation:**
   * **Concatenation** is the operation of joining two or more strings together.

**Objective & MCQ’s:**

1. **Positive and negative numbers and 0 with no decimal places belong to which data type?**
   * **d) Integer**
2. **Which of the following is a valid variable name?**
   * **c) $TotalSalary;**
3. **Which is the correct syntax for declaring a variable and assigning it a string?**
   * **a) $Name=”Muhammad”;**
4. **How many decimal places does an integer store?**
   * **d) Integer does not store decimal places.**
5. **Variable name must be starting with which symbol?**
   * **c) $**
6. **Combine the two or more string or other value by using concatenation symbol:**
   * **d) . (dot)**
7. **String constant value:**
   * **a) Must be enclosed in double quotes**
8. **A constant is case-sensitive by default. By convention, constant identifiers are always:**
   * **c) Upper case**
9. **We use the \_\_\_\_\_\_\_\_ function to create constant:**
   * **a) define()**
10. **A loosely typed programming language \_\_\_\_\_\_\_:**
    * **a) Does not require data types of variables to be declared**