

**Instructions:**

- Write both the Sections in the separate answer book.
- Both Sections have equal weightage.
- Draw Diagrams wherever necessary.
- Make Assumptions wherever necessary.

**SECTION – I**

- Q-1** Answer the following. 11
1. Explain the concept of embedding PHP within HTML. Provide an example of how PHP can be used to add dynamic content to a webpage. 06
  2. What are PHP variables, and how do you declare and use constants in PHP? Give examples for both. 05
- Q-2** Attempt the following. 12
1. Describe how to open, write to, and read from a file in PHP. Provide a sample script for each operation.
  2. Write a note on regular expression.
- OR**
- Q-2** Attempt the following.
1. Explain how to lock files in PHP. Write a PHP script demonstrating file locking during write operations.
  2. What is a loop? Explain different loop available in PHP.
- Q-3** Attempt the following. (Any Two) 12
1. What are multidimensional arrays in PHP? Write a PHP script to create a 2D array representing a matrix and display its contents.
  2. What is object-oriented programming? How we can define a class in PHP and inherit class in PHP?
  3. What is the use of \$\_FILES global variable? Mention various indexes of it and write its usage.

(P.T.O)

## SECTION – II

- Q-4 Answer the following.** **11**
1. What is an Exception? Which are the different blocks used in php for exception handling? **04**
  2. Describe recursion in PHP. Write a PHP function to calculate the factorial of a given number using recursion. **04**
  3. What is the significance of using require() and include() in PHP? Explain with examples. **03**
- Q-5 Attempt the following. (Any Two)** **12**
1. What is PHP Data Objects(PDO)? Explain CRUD operation using PDO.
  2. What are arbitrary arguments? Give an example for the same and explain the code.
  3. List out MySQL database field types. And explain each in brief.
- Q-6 Explain how PHP and MySQL handle date and time. Write a PHP script to:** **12**
- a. Retrieve the current date and time using PHP.
  - b. Convert the PHP date format to a MySQL-compatible format.
  - c. Store the formatted date and time in a MySQL table.
  - d. Retrieve the stored date from the database and calculate the difference (in days and hours) between the current date and the stored date.

OR

- Q-6** What is session control, and why is it essential in web applications? Write a PHP script to:
- a. Create a simple login system using sessions.
  - b. Validate the user's credentials against a predefined username and password.
  - c. Implement session timeout after 10 minutes of inactivity.
  - d. Include a logout functionality that destroys the session and redirects the user to the login page.

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