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M.Sc./M.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2024.

Second Semester

Computer Science/Computer Application – Core

Skill Enhancement Course – WEB DEVELOPMENT
USING PHP

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (15 × 1 = 15 marks)

Answer ALL questions.

Choose the correct answer :

1. What is one advantage of using PHP for web development?
 - (a) Client-side scripting capabilities
 - (b) Database integration and support
 - (c) Limited server compatibility
 - (d) Lack of community support

2. Which of the following best describes PHP's server-side architecture?
 - (a) Client interacts directly with PHP scripts
 - (b) PHP scripts run on the client's machine
 - (c) PHP scripts execute on the web server
 - (d) PHP scripts are executed by the browser
3. When was PHP first introduced?
 - (a) 1995
 - (b) 2000
 - (c) 2005
 - (d) 2010
4. What is the correct syntax for declaring a variable in PHP?
 - (a) \$variable_name;
 - (b) variable_name;
 - (c) var variable_name;
 - (d) @variable_name;
5. Which data type in PHP is used to store whole numbers without decimal points?
 - (a) Integer
 - (b) Float
 - (c) String
 - (d) Boolean
6. What is the purpose of the "if" statement in PHP?
 - (a) To perform a loop operation
 - (b) To check a condition and execute code based on the result
 - (c) To declare a constant value
 - (d) To assign a value to a variable

7. What is a function in PHP?
- A variable that stores data temporarily
 - A block of code that performs a specific task
 - A data type for storing text
 - An array that stores multiple values
8. Which keyword is used to define a user-defined function in PHP?
- var
 - define
 - function
 - echo
9. What is the purpose or arguments in a function?
- To define the function name
 - To specify the return type of the function
 - To provide input values to the function
 - To control the visibility of the function
10. Which form element is used to accept single-line text input from users?
- Text Area
 - Password
 - Radio Button
 - Text Box
11. Which form element is used to accept multi-line text input from users?
- Text Box
 - Password
 - Text Area
 - Radio Button
12. Which form element is used to create a drop-down list of options for users to choose from?
- Checkbox
 - Combo Box
 - Hidden Field
 - Image
13. Which PHP extension is commonly used for MySQL database connectivity?
- PDO
 - ODBC
 - MySQLi
 - SQLite
14. What is the primary purpose of the PHP PDO extension in database connectivity?
- To connect to Oracle databases
 - To connect to Microsoft SQL Server databases
 - To provide a unified interface for accessing multiple database types
 - To execute SQL queries in MySQL databases
15. Which of the following PHP functions is used to establish a connection to an Oracle database?
- mysqli_connect()
 - odbc_connect()
 - oci_connect()
 - sqlsrv_connect()

PART B — (5 × 4 = 20 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

16. (a) Describe two advantages of using PHP for web development.
Or
(b) Explain the server-side architecture of PHP in a decomposed manner.
17. (a) Describe the concept of data types in PHP and provide examples of different data types.
Or
(b) Explain the difference between variables and constants in PHP, and provide examples of each.
18. (a) Explain the concept of a user-defined function in PHP with an example.
Or
(b) Describe the significance of functions with arguments in PHP. Provide an example of a function with arguments.
19. (a) Describe the purpose of the <text area> element in HTML forms and provide an example of its usage.
Or

- (b) Explain the concept of a radio button in HTML forms and how it differs from a checkbox. Provide an example.

20. (a) Explain the role of PHP PDO in database connectivity and provide an example of performing a database query using PDO.

Or

- (b) Describe the process of inserting data into a MySQL database using the PHP MySQLi extension. Provide an example demonstrating the insertion of a new record.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 600 words.

21. (a) Explain three advantages of using PHP for web development including its impact on dynamic content generation and database integration.

Or

- (b) Describe the server-side architecture of PHP in detail, highlighting the role of web servers, PHP interpreters, and client-Server interaction.

22. (a) Explain the concept of arrays in PHP, including indexed arrays, associative arrays, and multidimensional arrays. Provide examples of each type of array.

Or

- (b) Describe the use of conditional statements in PHP, including the if statement, executing multiple statements, else if clauses, and switch statements. Provide examples of each type of conditional statement.
23. (a) Explain the concept of a user-defined function in PHP and discuss its advantages. Provide an example of a user-defined function

Or

- (b) Discuss the significance of built-in PHP functions for working with strings. Provide examples of commonly used string functions.
24. (a) Describe the purpose and usage of the <input> element with the type - "password" attribute in HTML forms. Provide an example and explain how password input is handled securely.

Or

- (b) Explain the purpose and functionality of the <select> element with <option> elements in HTML forms. Provide an example of a combo box (drop-down list).

25. (a) Explain the process of establishing a database connection using PHP PDO and performing a database query. Provide an example of inserting data into a MySQL database using prepared statements.

Or

- (b) Discuss the differences between PHP MySQLi and PDO extensions for database connectivity. Provide examples illustrating their usage for executing SQL queries and handling errors.