

**Professional Course Examination, May 2023**

( 4th Semester )

**BACHELOR OF COMPUTER APPLICATIONS**

**( Web Programming )**

*Full Marks : 75*

*Time : 3 hours*

*The figures in the margin indicate full marks for the questions*

**( PART : A—OBJECTIVE )**

( Marks : 25 )

SECTION—I

( Marks : 15 )

**A.** Tick (✓) the correct answer in the brackets provided : 1×10=10

1. The full form of PHP is

(a) Python Hypertext Preprocessor ( )

(b) PHP Hypertext Preprocessor ( )

(c) Private Home Page ( )

(d) None of the above ( )

2. Which of the following is true?
- (a) PHP is a client side scripting ( )
  - (b) PHP runs in the server ( )
  - (c) PHP is like HTML ( )
  - (d) None of the above ( )
3. We can use \_\_\_\_\_ to comment a single line.
- 1. `/?`
  - 2. `//`
  - 3. `#`
  - 4. `/ /`
- (a) only 2 ( )
  - (b) 1, 3 and 4 ( )
  - (c) 2, 3 and 4 ( )
  - (d) Both 2 and 4 ( )
4. Which of the following PHP statement/statements will store 111 in variable num?
- 1. `int $num = 111;`
  - 2. `int num = 111;`
  - 3. `$num = 111;`
  - 4. `111 = $num;`
- (a) Both 1 and 2 ( )
  - (b) All of the mentioned ( )
  - (c) Only 3 ( )
  - (d) Only 1 ( )

5. Which one of the following is the right way of defining a function in PHP?
- (a) function { function body } ( )
- (b) data type functionName(parameters) { function body } ( )
- (c) functionName(parameters) { function body } ( )
- (d) function functionName(parameters) { function body } ( )
6. A function in PHP which starts with `__` (double underscore) is known as
- (a) magic function ( )
- (b) inbuilt function ( )
- (c) default function ( )
- (d) user-defined function ( )
7. What will be the output of the following PHP code?
- ```
<?php
$fruits = array("mango","apple","pear","peach");
$fruits = array_flip($fruits);
echo($fruits[0]);
?>
```
- (a) mango ( )
- (b) error ( )
- (c) apple ( )
- (d) peach ( )
8. A package is a set of related
- (a) objects ( )
- (b) classes ( )
- (c) programs ( )
- (d) functions ( )

9. MySQL is basically

- (a) web server ( )
- (b) database server ( )
- (c) Both of the above ( )
- (d) None of the above ( )

10. Common term given to a language used in database operation is called

- (a) Programming ( )
- (b) SQL ( )
- (c) MySQL ( )
- (d) Oracle ( )

**B.** State whether the following statements are True (*T*) or False (*F*) by putting a Tick (✓) mark : 1×5=5

- 1. PHP does not allow Object-Oriented Programming. ( T / F )
- 2. PHP can be used along with HTML. ( T / F )
- 3. PHP is open source software. ( T / F )
- 4. MySQL is a database only for small applications. ( T / F )
- 5. Size of arrays in PHP can be increased during runtime. ( T / F )

SECTION—II

( Marks : 10 )

C. Answer the following questions : 2×5=10

1. Which array of global variable is not usually suitable for passing secret information?

**OR**

Which PHP variable/array may be used for capturing get and post items? Give example.

2. Differentiate between Data Definition Language and Data Manipulation Language.

**OR**

What are the different loops in PHP?

3. Write a PHP program to print whether a given number is even or odd.

**OR**

What is associative array?

4. How do you make connection to MySQL from PHP file?

**OR**

How do you include a PHP file from another PHP file?

5. Write the equivalent expression of  $x < y$ .

**OR**

How do we declare constant in PHP ?

**( PART : B—DESCRIPTIVE )**

( Marks : 50 )

D. Answer the following questions : 10×5=50

1. (a) What is a class in PHP? Explain with suitable example. 5  
(b) What will happen if you try to insert null values in non-nullable field? Explain. 5

**OR**

2. (a) What is SQL injection? How can it be a security issue? 5  
(b) Explain the different datatypes in PHP along with how they can be used. 5
3. (a) What is super global variable? Also differentiate between global and local variables. 5  
(b) What do you mean by sorting? Explain different-built in sorting functions of arrays. 5

**OR**

4. (a) Explain 'pass by value' and 'pass by reference' with suitable example. 5  
(b) Differentiate between POST and GET method. 5
5. (a) Write an SQL code to update the name of student if his/her roll number is known. 5  
(b) Explain how information submitted in the page may be captured using POST method in PHP with example data. 5

**OR**

6. (a) Explain how user authentication may be done using PHP with username and password information stored in MySQL database. 5  
(b) Explain the two main purposes of normalization in databases. 5
7. (a) How do you format dates using different built-in function in PHP? 5  
(b) Explain different string manipulation functions. How do you take the last four characters from a string? (e.g., if the string is "MZ-01 Z 8990", it should give "8990") 5

**OR**

8. (a) Explain how to select the first 10 female students from a list of students stored using MySQL table (use necessary assumptions). 5  
(b) How do you maintain authenticity and security access using sessions? Explain. 5

9. (a) What are cookies? Explain how they work. 5  
(b) Explain anonymous functions in PHP. What are their uses? 5

**OR**

10. (a) What are objects in PHP? Explain how members of the class may be accessed using its object. 5  
(b) Write a short note on the users' roles and privileges in databases. 5

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