

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 : $1 \times 10 = 10$

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

★ ★ ★