

**Professional Course Examination, May 2024**

( CBCS )

( 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 )

Tick (✓) the correct answer in the brackets provided :

1×10=10

1. Which one of the following is used to hack or compromise website database?

- (a) SQL insertion      (    )
- (b) SQL injection      (    )
- (c) SQL hacking      (    )
- (d) SQL destruction      (    )

2. The function to capitalize the first letter in each word is

(a) ucfirst() ( )

(b) ucwords() ( )

(c) strupper() ( )

(d) wordupper() ( )

3. Which symbol is used to create associate arrays?

(a) -> ( )

(b) => ( )

(c) --> ( )

(d) ==> ( )

4. In MySQL, the character \_\_\_\_\_ is used to match any single character.

(a) underscore, \_ ( )

(b) percent, % ( )

(c) hash, # ( )

(d) dollar, \$ ( )

5. Which one of the following is not among `mysql_connect()` arguments?

(a) server ( )

(b) username ( )

(c) password ( )

(d) connect ( )

6. A function without any user-defined name is called

(a) global function ( )

(b) local function ( )

(c) anonymous function ( )

(d) variable function ( )

7. Which keyword is used to define inheritance in PHP?

(a) inherits ( )

(b) extends ( )

(c) interface ( )

(d) traits ( )

8. Which one of the following is the correct way to increment a variable?

(a) count\$++ ( )

(b) \$count =+ 1 ( )

(c) \$count += 1 ( )

(d) \$++count ( )

9. Which one of the following MySQL commands is used to insert data from text file?

(a) INSERT DATA ( )

(b) LOAD DATA ( )

(c) LOCAL DATA ( )

(d) None of the above ( )

10. The variable that retains its value between calls to a function is

(a) static variable ( )

(b) global variable ( )

(c) local variable ( )

(d) function parameter ( )

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

1. The keyword 'trait' is used in PHP to implement multiple inheritances.

( T / F )

2. The keyword COUNT is used for counting the number of rows in a table.

( T / F )

3. If \$x = 5 and echo ++\$x; then it will print the value 5.

( T / F )

4. Functions are compiled only one time no matter how many times you call them.

( T / F )

5. The date format in MySQL is DD-MM-YYYY.

( T / F )

SECTION—II

( Marks : 10 )

Answer the following questions :

2×5=10

1. (a) Differentiate between 'break' and 'continue' statements in PHP.

**OR**

- (b) Differentiate between 'while' loop and 'do while' loop in PHP.

2. (a) What is anonymous function? Give example.

**OR**

- (b) The expression `7 == '7'` returns true but the expression `7 === '7'` returns false. Explain why.

3. (a) How to access specific value of an array? Do we need to quote index key of a single-word array?

**OR**

- (b) What are the two methods to get the number of elements in an array?

4. (a) What is 'foreach' in PHP? Give example.

**OR**

- (b) Define the `rand()` function of PHP. Write PHP code to generate 4-digit OTP code in PHP using `rand()` function.

5. (a) Write MySQL statement to create new user and explain briefly.

**OR**

- (b) Write MySQL statement to grant all the privileges to new user and discuss briefly.



**( PART : B—DESCRIPTIVE )**

( Marks : 50 )

Answer the following questions :

10×5=50

1. (a) Define identifiers. Write any three rules for creating identifiers in PHP.

2+3=5

- (b) Write PHP code to demonstrate the use of nested if statement.

5

**OR**

- (c) Define operators. Explain briefly the three arithmetic operators—  
division (/), modulus (%) and exponentiation (\*\*) with PHP code.

2+3=5

- (d) Explain the conditional operator in PHP with example code.

5

2. (a) Define function in PHP. Write any four advantages of functions.

1+4=5

- (b) Define string. Write any three ways to create strings in PHP.

2+3=5

**OR**

- (c) Define the preg\_match\_all() function in PHP for regular expression  
with example code.

5

- (d) Explain briefly preg\_split() function in PHP and give example code.

5

3. (a) What is multidimensional array? How to create a two-dimensional  
array and how to access it?

2+3=5

- (b) What is a class in object-oriented programming? Write PHP code to  
implement a class in OOP.

5

**OR**

- (c) Explain the different methods or functions that can be used for sorting in PHP. 5

- (d) Explain the concept of traits in PHP. Write PHP code for traits. 2+3=5

4. (a) Discuss MySQL database system. 5

- (b) Explain any five operators that can be used along with the SELECT command in SQL with one example each. 5

**OR**

- (c) Explain briefly any five SQL constraints. 5

- (d) Discuss any five SQL functions and give one example each. 5

5. (a) Explain the process of connecting MySQL database from PHP website. 5

- (b) Write PHP code to test whether the connection to MySQL database is connected successfully or not. 5

**OR**

- (c) Explain the process of backing up and restoring MySQL database. 5

- (d) Write PHP code to delete data from MySQL database. 5

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