GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, GUNUPUR (GIET UNIVERSITY)

B. C. A (Sixth Semester) Examinations, April 2025

BCA20601 – Web Programming With PHP and MYSQL

Time: 3 hrs   Maximum: 70 Marks

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)   **(1 x 10 = 10 Marks)**

Q. 1 Answer *ALL* questions

		CO #	PO #

a. Which function is used to count the number of elements in an array?   CO1   PO1
    i.   count()   ii.   sizeof()
    iii.   length()   iv.   Both i and ii

b. Which keyword is used to skip the current iteration of a loop in PHP?   CO1   PO1
    i.   End   ii.   Skip
    iii.   Continue   iv.   Stop

c. Which of the following is a sample PHP application?   CO1   PO1
    i.   Login form   ii.   Feedback form
    iii.   Contact page with mail function   iv.   All of the above

d. Which of the following is a benefit of a database?   CO2   PO1
    i.   Redundancy increase   ii.   Data isolation
    iii.   Data sharing   iv.   Data inconsistency

e. Which of the following is NOT a level in the three-level database architecture?   CO2   PO1
    i.   Internal level   ii.   Physical level
    iii.   Conceptual level   iv.   External level

f. In a client-server architecture, the server is responsible for: CO2   PO1
    i.   Sending queries   ii.   User interaction
    iii.   GUI design   iv.   Data processing and storage

g. Which clause is used to sort the result of a query?   CO3   PO1
    i.   Where   ii.   Order by
    iii.   Group by   iv.   Sort by

h. Which SQL clause is used to filter grouped data?   CO3   PO1
    i.   Order by   ii.   Group by
    iii.   Having   iv.   Filter

i. How do you fetch a row from a result set as an associative array in PHP?   CO4   PO1
    i.   mysqli_row_assoc()   ii.   mysqli_fetch_array()
    iii.   mysqli_get_assoc()   iv.   mysqli_fetch_assoc()

j. Which function is used to check for errors after a failed MySQL query?   CO4   PO1
    i.   mysqli_query_error()   ii.   mysqli_error()
    iii.   mysqli_get_error()   iv.   mysqli_exception()

PART – B: (Short Answer Questions)   **(2 x 10 = 20 Marks)**

Q.2. Answer *ALL* questions

		CO #	PO #
a.	What is PHP?	CO1	PO1
b.	Write the meaning & operator symbol of the logical operator.	CO1	PO2
c.	Give an example of a for loop that prints numbers 1 to 5.	CO1	PO2

		CO #	PO #
d.	Write the Challenges in Distributed Processing.	CO2	PO2
e.	Difference between Domains & Relations in Database?	CO2	PO2
f.	What is DDBMS?	CO2	PO1
g.	What is Reliability and Stability in MySQL?	CO3	PO2
h.	Define grouping data.	CO3	PO1
i.	What is Form Validation?	CO4	PO1
j.	Write the command for formatting query output with Character.	CO4	PO2

PART – C: (Long Answer Questions)   (10 x 4 = 40 Marks)

Answer ***ALL*** questions

		Marks	CO #	PO #
3.a.	Explain how variables and operators work in PHP.	5	CO1	PO2
b.	What is an array in PHP? Write a program to create and display the contents of an array.	5	CO1	PO2

(OR)

		Marks	CO #	PO #
c.	Write a PHP script for multiplication of 4 numbers?	5	CO1	PO2
d.	Explain different types of operators.	5	CO1	PO2
4.a.	Explain ER Model in detail. Discuss its key components. Illustrate with a suitable example.	5	CO2	PO3
b.	Write the difference between logical data independence & physical data independence.	5	CO2	PO2

(OR)

		Marks	CO #	PO #
c.	What is a Normal form? Explain different types of normal forms.	5	CO2	PO2
d.	What is server side architecture? Explain the responsibilities with example.	5	CO2	PO3
5.a.	What is Numeric Data Types? Explain with example.	5	CO3	PO2
b.	Write the Syntax for Selecting Data with an example.	5	CO3	PO2

(OR)

		Marks	CO #	PO #
c.	Explain briefly about LEFT JOIN clause.	5	CO3	PO2
d.	Write Syntax for Creating Tables with an example?	5	CO3	PO2
6.a	Explain briefly about Database Layer.	4	CO4	PO2
b	Write short note on: (i) Frontend Validation (ii) Backend Validation	6	CO4	PO2

(OR)

		Marks	CO #	PO #
c.	What is Combining Formatting? Explain with an example.	5	CO4	PO2
d.	What is validating user input through Database layer?	5	CO4	PO2

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