

Gandhi Institute of Engineering and Technology University, Odisha, Gunupur (GIET University)



B.C.A. (Sixth Semester - Regular) Examinations, April - 2026
BCA23601 – Web Programming with PHP and MySQL

Time: 3 hrs

Maximum: 60 Marks

(The figures in the right hand margin indicate marks)

PART – A**(2 x 5 = 10 Marks)**Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. Define PHP. Why is it called a server-side scripting language?	CO1	K1
b. Define primary key and foreign key?	CO2	K1
c. Write syntax for CREATE DATABASE?	CO3	K2
d. What is CRUD operation?	CO5	K1
e. What is SELECT statement?	CO4	K3

PART – B**(10 x 5 = 50 Marks)**Answer **ALL** questions

	Marks	CO #	Blooms Level
2. a. Discuss the history of PHP, its features, advantages, and applications in web development. Explain why PHP is popular for server-side scripting.	5	CO1	K1
b. Explain PHP programming language. - Features of PHP - Advantages - Basic syntax with example	5	CO1	K3
(OR)			
c. Develop a PHP program to generate Fibonacci series up to N terms using loops.	5	CO1	K3
d. Discuss if, if-else, switch, nested conditions, and merging forms with conditional statements using examples.	5	CO1	K1
3.a. Discuss candidate key, primary key, and foreign key with suitable examples and relationships.	5	CO2	K2
b. Design an ER diagram for a Hospital Management System with entities: - Doctor - Patient - Appointment	5	CO2	K1
(OR)			
c. Describe internal, conceptual, and external levels and explain logical and physical data independence.	5	CO2	K1
d. Write SQL queries to: - Create database and table - Apply constraints (PRIMARY KEY, NOT NULL) - Insert records	5	CO2	K3
4.a. Explain data manipulation operations in MySQL.	5	CO3	K2
b. Explain how to create users, assign privileges, and manage access control.	5	CO3	K1
(OR)			
c. Explain PRIMARY KEY, AUTO_INCREMENT, DEFAULT, UNIQUE, CHECK, and NOT NULL with examples.	10	CO3	K2
5.a. Write SQL queries using: - LIKE - BETWEEN	5	CO4	K1

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- IN
- ORDER BY

b.	Write SQL queries using aggregate functions:	5	CO4	K2
	• Find total number of students • Find average marks • Find maximum and minimum marks			
	(OR)			
c.	Discuss SUM, AVG, COUNT, MIN, MAX, GROUP BY, and HAVING with examples.	5	CO4	K2
d.	Explain execution of SQL queries using PHP.	5	CO4	K1
6.a.	Discuss mysqli_error(), die(), and debugging techniques.	5	CO5	K2
b.	Explain how PHP connects with MySQL database. Write steps and example code.	5	CO5	K2
	(OR)			
c.	Write a PHP program to fetch and display records using mysqli_fetch_assoc().	5	CO5	K1
d.	Design a Hospital Management Database Schema and define primary keys and relationships	5	CO5	K2

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