

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)**

Branch - **COMPUTER SCIENCE WITH DATA ANALYTICS**

PHP AND MySQL PROGRAMMING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which loop will execute at least once even if the condition is false? a) for b) while c) do...while d) foreach	K1	CO1
	2	Show Which of the following is TRUE about PHP variables? a) They must be declared with data types before use b) They are case-insensitive c) They are always prefixed with \$ d) They cannot store string values	K2	CO1
2	3	Which function in PHP returns the current timestamp? a) date() b) time() c) mktime() d) getdate()	K1	CO2
	4	Identify which math function in PHP rounds a number up to the nearest integer a) ceil() b) floor() c) round() d) abs()	K2	CO2
3	5	Which PHP function is used to send a cookie to the client's browser? a) create_cookie() b) send_cookie() c) setcookie() d) cookie_send()	K1	CO3
	6	Illustrate what happens if you try to access a cookie immediately after calling setcookie() in the same script? a) It is available instantly b) It throws an error c) It will be available only on the next page load d) It overwrites existing cookies	K2	CO3
4	7	What is the purpose of the PRIMARY KEY in MySQL? a) To allow duplicate values b) To uniquely identify each record c) To act as a foreign key d) To store NULL values	K1	CO4
	8	Show which of the following is true about phpMyAdmin a) It is a command-line tool b) It is a web-based interface for MySQL c) It is a programming language d) It is a database engine	K2	CO4
5	9	Which MySQL command is used to remove a table from a database? a) DELETE TABLE b) REMOVE TABLE c) DROP TABLE d) CLEAR TABLE	K1	CO5
	10	Illustrate Which of the following best describes placeholders in SQL queries a) Dummy values used for testing b) Variables used in prepared statements to prevent SQL injection c) Temporary database tables d) Comments inside SQL queries	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Identify the operators used in PHP. (OR)	K4	CO1
	11.b.	Compare and analyze the behavior of while, do...while, and for loops in PHP.		
2	12.a.	Distinguish between one-dimensional and multidimensional arrays in PHP. (OR)	K4	CO2
	12.b.	Analyze how PHP handles form data submission.		
3	13.a.	Examine the process of HTTP authentication in PHP. Write a PHP code to implement basic authentication for a protected page. (OR)	K6	CO3
	13.b.	Analyze how session variables are created and managed in PHP. Compose a PHP script to demonstrate the lifecycle of a session.		
4	14.a.	Evaluate the difference between DELETE, TRUNCATE, and DROP commands with proper use cases. (OR)	K5	CO4
	14.b.	Design a simple database schema for a student management system using appropriate MySQL data types.		
5	15.a.	Compare \$_POST and \$_GET arrays in terms of security and usability with practical scenarios. (OR)	K5	CO5
	15.b.	Explain how to insert, update, delete, and retrieve data from a MySQL database using PHP.		

SECTION - C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Create a PHP program that accepts a number from the user and generates the factorial using recursion. Justify why recursion is suitable/unsuitable compared to iteration.	K6	CO1
2	17	Evaluate the use of PHP date and time functions in building a web application that records and displays time-based activities.	K5	CO2
3	18	Assess the effectiveness of cookies versus sessions for maintaining user authentication states in a web application.	K4	CO3
4	19	Evaluate the advantages and limitations of using command-line interface vs. phpMyAdmin for managing MySQL databases in real-world applications.	K5	CO4
5	20	Analyze the importance of prepared statements in PHP for preventing SQL injection. Provide an example.	K4	CO5