

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2026
(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

$$(10 \times 1 = 10)$$

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following is the correct way to start a PHP script? a) <php> b) <?php c) <?script> d) <script php>	K1	CO1
	2	Interpret the type casting in PHP a) Converting variables manually using functions like (int) or (string) b) PHP automatically converts a variable's type when required c) Using settype() function only d) Assigning a string to a number without error message	K2	CO1
2	3	Which loop is commonly used to iterate through arrays in PHP? a) for b) while c) foreach d) do...while	K1	CO2
	4	What will array_merge() do when both arrays have the same string keys? a) The first array values are preserved b) The second array values overwrite the first c) Both values are merged d) An error is thrown	K2	CO2
3	5	Which PHP function is used for basic HTTP authentication? a) http_auth() b) header() c) authenticate_user() d) login()	K1	CO3
	6	Illustrate Which of the following can be used to enhance session security? a) Regenerating session IDs frequently b) Storing passwords in plain text c) Using same session IDs across users d) Allowing cookies from all domains	K2	CO3
4	7	Which of the following MySQL commands is used to see the list of databases? a) SHOW TABLES; b) SHOW DATABASES; c) LIST DATABASES; d) DESCRIBE DATABASES;	K1	CO4
	8	Which MySQL command is used to remove a table permanently? a) REMOVE TABLE table_name; b) DELETE table_name; c) DROP TABLE table_name; d) CLEAR TABLE table_name;	K2	CO4
5	9	Which PHP superglobal is used to collect form data sent with the POST method? a) \$_GET b) \$_POST c) \$_FORM d) \$_DATA	K1	CO5
	10	What does HTML injection mainly exploit? a) Database schema b) HTML output shown to the user c) PHP login file d) MySQL AUTO INCREMENT feature	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.	Evaluate the advantages and disadvantages of using implicit type casting in PHP with suitable examples.	K5	CO1
		(OR)		
	11.b.	Evaluate the role of control flow statements (if-else, switch, loops) in enhancing the readability and maintainability of PHP programs. Support your answer with suitable code examples.		
2	12.a.	Analyze the use of string functions in PHP by writing a script that manipulates and formats a given sentence.	K4	CO2
		(OR)		
	12.b.	Compare file handling modes in PHP and explain how file reading and writing are performed with examples.		
3	13.a.	Differentiate between cookies and sessions in PHP. Discuss advantages and disadvantages of each with suitable example	K5	CO3C
		(OR)		
	13.b.	Analyze the role of salting in password storage. Demonstrate how a salted hash can be generated and verified in PHP.		
4	14.a.	Compare MySQL data types CHAR, VARCHAR, and TEXT with suitable examples.	K4	CO4
		(OR)		
	14.b.	Analyze the importance of indexes in MySQL. How do they improve query performance?		
5	15.a.	Design and implement a mini PHP-MySQL application for an online feedback system that allows users to submit feedback through a form, stores it in a database, and displays average ratings dynamically.	K6	CO5
		(OR)		
	15.b.	Create a secure login and registration system in PHP with password hashing, prepared statements, and input validation. Demonstrate how SQL injection and HTML injection are prevented.		

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	Design and implement a PHP script that accepts marks of five subjects, calculates the total, average, and assigns grades based on conditions. Demonstrate the use of control flow statements effectively	K6	CO1
2	17	Design and evaluate a PHP program that demonstrates the use of arrays and array functions to manage student details.	K5	CO2
3	18	Design and evaluate a secure login system in PHP that uses sessions for authentication and cookies for "Remember Me" functionality.	K5	CO3
4	19	Examine the role of phpMyAdmin in database administration compared to MySQL command-line interface.	K4	CO4
5	20	Compare \$_GET and \$_POST methods in PHP. Which one is more secure for login forms and why?	K4	CO5