

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch - INFORMATION TECHNOLOGY

PHP AND MYSQL

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 PHP loop is best suited for iterating over an array? a) for b) foreach c) while d) do...while	K1	CO1
	2	Which of the following is TRUE about PHP dynamic linking? a) PHP programs must always be compiled before execution b) PHP supports dynamic linking of external libraries at runtime c) PHP cannot include external code dynamically d) PHP requires only static linking	K2	CO1
2	3	Which of the following is an example of a multidimensional array? a) \$arr = array(1,2,3); b) \$arr = array("name"=>"John"); c) \$arr = array(array(1,2), array(3,4)); d) \$arr = array();	K1	CO2
	4	Which PHP superglobal is used to retrieve submitted form data via POST? a) \$_FORM b) \$_DATA c) \$_POST d) \$_GET	K2	CO2
3	5	What is the correct way to inherit a class in PHP? a) class B extends A { } b) class B implements A { } c) class B inherits A { } d) class B using A { }	K1	CO3
	6	The Generators in PHP are created using _____ keyword. a) yield b) return c) continue d) break	K2	CO3
4	7	Which PHP function is used to set a cookie? a) cookie_set() b) setcookie() c) create_cookie() d) makecookie()	K1	CO4
	8	Which superglobal is used to access cookie values? a) \$_GET b) \$_POST c) \$_COOKIE d) \$_SESSION	K2	CO4
5	9	The ROLLBACK command is used to: _____. a) Save changes permanently b) Undo changes made during a transaction c) Create backups d) Commit updates	K1	CO5
	10	Which MySQL command displays a table structure? a) SHOW TABLE b) DESCRIBE table_name c) STRUCTURE table_name d) INFO table_name	K2	CO5

Cont...

SECTION - B (35 Marks)Answer **ALL** questionsALL questions carry **EQUAL** Marks $(5 \times 7 = 35)$

Module No.	Question No.	Question	K Level	CO
1	11.a.	Evaluate how PHP handles type juggling (implicit casting). Discuss its impact on application reliability. (OR)	K3	CO1
	11.b.	Compare require_once() and include_once() in PHP. Which one is more efficient and why?		
2	12.a.	Analyze the differences between indexed, associative, and multidimensional arrays in PHP. Provide examples of when each type should be used. (OR)	K4	CO2
	12.b.	Compare PHP string functions (strlen(), substr(), str_replace()) and explain their significance with practical examples.		
3	13.a.	Assess the importance of abstract classes in framework development. (OR)	K5	CO3
	13.b.	Evaluate the effectiveness of generators over normal iterators in PHP with suitable example.		
4	14.a.	Compare cookies and sessions in PHP with examples. Analyze their differences in storage, lifetime, and security. (OR)	K4	CO4
	14.b.	Analyze the working of HTTP Basic Authentication in PHP. Write a script that requests a username and password.		
5	15.a.	Build and implement a student management system database in MySQL that includes tables for Students, Courses, and Enrollments and write SQL scripts to: <ul style="list-style-type: none"> • Create the tables • Insert sample data • Retrieve all courses taken by a specific student (OR)	K3	CO5
	15.b.	Develop a PHP-MySQL application for an online bookstore that allows: <ul style="list-style-type: none"> ◦ Adding books with AUTO_INCREMENT IDs ◦ Displaying books in a table format ◦ Updating book prices ◦ Deleting a book by ID. 		

SECTION - C (30 Marks)Answer **ANY THREE** questionsALL questions carry **EQUAL** Marks $(3 \times 10 = 30)$

Module No.	Question No.	Question	K Level	CO
1	16	Design a PHP program that takes user input and validates it using conditionals and functions.	K4	CO1
2	17	Explain strategy to combine PHP date/time functions with validation for an online event registration system.	K5	CO2
3	18	Inspect the Inheritance in PHP with suitable example.	K4	CO3
4	19	Explain about Null Safe operator with suitable example.	K5	CO4
5	20	Analyze the difference between ROLLBACK and COMMIT with a PHP-MySQL program example.	K4	CO5