

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

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

## Branch - COMPUTER SCIENCE

Time: Three Hours

Maximum: 75 Marks

## **WEB TECHNOLOGIES**

**SECTION-A (10 Marks)**

**Answer ALL questions**

**ALL** questions carry **EQUAL** marks

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

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.	Name and explain different PHP variable scopes with examples.	K2	CO1
		(OR)		
	11.b.	Find and list the main advantages of using Bootstrap for responsive web design.		
2	12.a.	Illustrate the use of passing parameters by value versus by reference in PHP functions with examples.	K3	CO2
		(OR)		
3	12.b.	Explain different string handling functions in PHP and demonstrate their use with examples.	K4	CO3
	13.a.	Develop a PHP script to connect with a MySQL database and retrieve all records from a given table.		
		(OR)		
4	13.b.	Plan and implement a step-by-step procedure to insert new records into a MySQL table using PHP	K4	CO3
	14.a.	Develop a JavaScript function that validates whether an entered email ID in a form is valid or not.		
		(OR)		
5	14.b.	Apply the concept of recursion in JavaScript to calculate the factorial of a number.	K3	CO4
	15.a.	Analyze the relationships between different jQuery UI interactions (Draggable, Droppable, Resizable, and Sortable) and their usage in web applications.		
		(OR)		
5	15.b.	Distinguish the functionality of jQuery UI widgets (Accordion, Tabs, and Progress Bar) by dissecting their role in enhancing user experience.		

**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	Define and illustrate the steps for creating a dynamic PHP web page that processes form variables and displays results using Bootstrap components.	K4	CO1
2	17	Build an object-oriented PHP application using inheritance and interfaces to manage a library system with error handling and logging.	K4	CO2
3	18	Construct a complete PHP application that performs Create, Read, Update, and Delete (CRUD) operations on a student database.	K4	CO3
4	19	Analyze the differences between var, let, and const in JavaScript by inspecting their scope and re-declaration rules.	K4	CO4
5	20	Evaluate the importance of jQuery UI effects (Color Animation, Easing, Add Class, Remove Class) in improving modern web design aesthetics.	K4	CO5