## END-SEMESTER EXAMINATION, January-2024 Modern Web Development Workshop - 1 (CSE 2191)

Programme: B.Tech (CSIT)

Full Marks: 60

Semester: 3rd Time: 3 Hours

Subject/Course Learning Outcome	*Taxono	Ques.	Marks
	my	Nos.	
	Level		
Understand Dynamic Web Content -	L1	2,3	
understand the concept of dynamic web			
content and its importance in modern web			
development			
Setup Proficient Development Server - setup	L1, L2	3(b)	
and configure a development server to host			
and test web applications effectively			
Apply Knowledge of PHP Programming -	L3, L4, L5	3,4	2
acquire the skills needed to write, debug,			
and maintain PHP code, including knowledge			
of expressions, control flow, functions, and			
objects			
Handle Data with PHP - demonstrate	L4, L6	6,7,10	
proficiency in working with data using PHP,			i i
including manipulating arrays, form		,	
handling, and implementing cookies and			
sessions for user data management and			
authentication	10.11.16	10	
Integrate Database with MySQL - proficient	L3, L1, L6	10	
in integrating MySQL databases into web		*	
applications, including database design,		,	
querying and basic administration  Explore JavaScript - foundation	L2, L3	8,9	
DAPIOLE	12, 13	0,9	1
understanding of JavaScript including expressions, control flow and basic scripting			
techniques enabling them to add interactivity	8	- 1	1
to web applications		-	

\*Bloom's taxonomy levels: Remembering (L1), Understanding (L2), Application (L3), Analysis (L4), Evaluation (L5), Creation (L6)

Answer all questions. Each question carries equal mark.

1.	How would you sanitize user input in a PHP application prevent SQL injection?	to
	Explain the differences between GET and POST methods form submissions, and when would you use each?	in
(	Discuss the advantages and disadvantages of using MySQLi over PDO in PHP.	er
2.	Describe the purpose of the "SESSION" superglobal in PHP and how it can be utilized in web development.	d
	Explain the concept of prepared statements and how the contribute to improving the security of database queries.	y
	authorization in a PHP and MySOI chased web and	
3.	how you would set, retrieve, and delete cookies using the role of cookies in web development and explain	
	a MySQL database.	1:
~	How do you handle file uploads securely in a PHP application, and what considerations should be taken into account?	2
4	what is the purpose of the "header" function in PHP, and how can it be used for HTTP redirection?	2
	How would you implement a pagination system in a PHP and MySQL application to efficiently display large sets of data?	2
*	validation in web forms, and when would you use each?	2
5.	Discuss the role of PHP sessions in maintaining user state across multiple pages and how session hijacking can be prevented.	2
	user authentication, and why is it crucial?	2
~	Explain the use of the "foreach" loop in PHP, especially in the context of iterating through arrays and handling key-value pairs.	2
6.	Explain the difference between "==" and "===" in PHP.	2
	What is the role of the "include" and "require" statements in PHP?	2
	What is the purpose of the "mysqli_query" function in PHP? 2	
7.	What is the use of the "\$_GET" superglobal in PHP? State with an implementation level code.	_
•	How do you declare an associative array in PHP?	-
1	How can you handle errors in PHP using the "try," "catch," and 2 "finally" blocks?	

8. (a) How do you set and retrieve cookies in PHP? State with an implementation level code.	2
Provide a brief explanation of what JavaScript is and its primary use in web development.	2
(c) Explain how console.log() is used and what it helps developers accomplish.	2
9. (a) List and briefly explain the basic data types in JavaScript.	2
(b) Explain the difference between let, const, and var in JavaScript.	2
Describe what scope is and how it affects the visibility and accessibility of variables in JavaScript.	2
Write a query to insert 5 random values into a MySQL database	2
'student_id', 'student_name', 'student_reg', student_leg',	2
password as '1234'.  (c) Write down the contents of fourth iteration of print_r(\$row) that you will get after executing while(\$row=mysqli_fetch_assoc( <database everything="" for="" from="" query="" selecting="" studentrecords="">)</database>	2