GANPAT UNIVERSITY

FACULTY OF ENGINEERING AND TECHNOLOGY

U. V. PATEL COLLEGE OF ENGINEERING

B.TECH (CE/IT) SEM-6 WEB TECHNOLOGY

<u>ASSIGNMENT</u>

Sem: 6th CE/IT

Sub: Web Technology (2CEIT6PE1)

Instruction - The right-most text indicates the Course Outcomes (CO) Numbers, followed by Bloom's taxonomy level of the question, R: Remembering, U: Understanding, A: Applying, N: Analyzing, E: Evaluating, C: Creating**.**

1.	Explain Web Application Three Tier Architecture with diagram.	1U
2.	What is PHP? Discuss its features and advantages as a server-side scripting language.	2R
3.	What are Superglobals in PHP? Illustrate their usage with an example.	2A
4.	Write the differences between include(), require(), include_once(), and require_once() functions in PHP.	2E
5.	How would you check if a string contains a specific substring in PHP?	2A
6.	Write a PHP function to count the number of words present in a sentence.	2A
7.	Explain the following function with an example: a) explode b) implode c) ord() d) array_walk() e) array_unique() f) preg_match()	2U
8.	Write difference between following with an example: a) for and foreach loop b) unlink and unset c) array_shift() and array_unshift() d) array_diff() and array_merge() e) array_merge() and array_merge_recursive() f) Indexed and Associative array	2E
9.	What are the steps involved in reading and writing a large file in PHP efficiently?	3R
10.	How do you handle file uploads in PHP? Explain with an example.	3U

	Programs:	
1	Write a PHP program that generates a random array of integers and calculates the percentage of positive, negative, and zero elements in the array.	2C
2	Develop a PHP program that validates form data to ensure it meets specified criteria (e.g., required fields, valid email format, minimum/maximum length). It displays error messages if validation fails and processes the form only if all data is valid.	4C
3	Write a PHP program to count the number of occurrences of a specific word in sample.txt file.	3C
4	Write a PHP program to generate a random password with 8 characters, including at least one uppercase letter, one lowercase letter, one number, and one special character from the following set: !@#$%^&*()_+-=[]{}|;:',.<>?	4C

Last date to submit assignment: 14/03/2024

Note: Write assignment in notebook.

 Name and Sign of Faculty Member

 Prof. Rachana Modi

 R.v.modi

 Date: 21/02/2024