

Seat No./Enrollment No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BACHELOR OF ENGINEERING – SEMESTER 5 – EXAMINATION – SUMMER 2026

Subject Code: 3151606

Date: 25/05/2026

Subject Name: Web Development

Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**
- 4. Simple and non-programmable scientific calculators are allowed.**

- Q.1**
- (a) State what CORS stands for and its basic purpose. **03**
- (b) Explain different attributes of meta tag with example. **04**
- (c) Write a PHP code using session management to track shopping cart items. **07**

- Q.2**
- (a) Use CSS animations to an HTML element so that a button changes color and scales up slightly when hovered over. Write the code. **03**
- (b) Write code to destroy the session when user press the logout button. **04**
- (c) Write an HTML Code to generate following table structure. **07**

A		B	C	D	
E		F	G	H	I
K	L		M	N	O
	P		R		S
T	U	V			W
Y	X	AA	AB		X
				AC	AD

OR

- Q.2**
- (c) Write an HTML code to create a Registration form for the student at the time of college admission. Apply following validation using the HTML tags and attributes only. **07**
- (1) All fields are compulsory. (2) Mobile number must be 10 digit number.
- (3) Passing year must not be less than 2 years from current year. (i.e. not less than 2023). Disable the future date as well. (4) Date of Birth range must be between 01-01-2005 to 31-12-2024. (5) Email Validation, Pin Code Validation.

- Q.3**
- (a) Describe the role of callbacks in JavaScript functions, illustrating with a simple code snippet. **03**
- (b) What is event handling in Java? Write a Java Script code to change the size of image if mouse cursor is over the image and reduce back to normal when cursor is out. **04**
- (c) Write JavaScript code to parse a JSON file containing student data and display it in an HTML table. **07**

OR

- Q.3**
- (a) Write a JavaScript code snippet to create an account object containing three sub-objects: Saving, Loan, and Current Account . Assign appropriate properties to each sub-object, and display all properties using a for in loop. **03**
- (b) Simulate an asynchronous operation using setTimeout, and use a callback to display a message after 2 seconds. **04**

- (c) Write a JavaScript program that reads user account data stored in a JSON file. Design an HTML form that allows the user to enter their Username and Password. Using JavaScript, validate the entered credentials against the stored user data in the JSON file. Display an appropriate message such as “Login Successful” or “Invalid Username or Password” based on the validation result. **07**

- Q.4** (a) What is associative array in PHP? Explain with example. **03**
(b) What is DOM in Java Script? Explain and two DOM manipulation function. **04**
(c) Write PHP code to perform CRUD operation on Student Database. **07**

OR

- Q.4** (a) Differentiate between session and cookies. **03**
(b) Write Java Script code to enter 10 numbers, comma separated (e.g. 2,4,5,19,3..) through prompt box. Find out Maximum number, minimum number and average of all 10 numbers and display through an alert box. **04**
(c) Write a PHP script to upload an image, check its type (e.g., JPEG/PNG), and move it to a directory (Directory name - /usr/student/col1/). Apply size limits (under 2MB) and rename the file uniquely. **07**

- Q.5** (a) Explain Hidden Fields and Query String. **03**
(b) Create a webpage with a list of 5 items. Use jQuery to change the background color of a list item when clicked. **04**
(c) What is CSS Box Model? Write CSS code to implement following output. **07**
(1) Make an ordered list with red border, padding and font size 20. (2) Use flower.jpg as Background and repeat it. (3) Change background color of text box when focused. (4) Create a fixed position link at bottom with scrolling page. Give name of the link “#top”.

OR

- Q.5** (a) Explain \$_GET, \$_POST and \$_REQUEST in PHP. **03**
(b) Create an Image Slider using JQuery. There should be at least 5 images. **04**
(c) Create a PHP REST API to perform HTTP GET and DELETE method. Write postman URL to consume that API. Also write necessary database connection code. **07**
