Enrolment No./Seat No_____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER– VI EXAMINATION – SUMMER 2026

Subject Code:3160713 Date:05-06-2026

Subject Name:Web Programming

Time:10:30 AM TO 01:00 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.**

			MARKS
Q.1	**(a)**	Explain working of <iframe> tag in HTML with example.	**03**
	(b)	Explain any two attributes and any two methods available for the <input> tag in HTML.	**04**
	(c)	Explain text(), html(), val(), attr() methods related to DOM manipulation using JQuery with example.	**07**
Q.2	**(a)**	Discuss the difference between synchronous and asynchronous web programming approaches (Provide at-least three points).	**03**
	(b)	Describe how the CSS position property works with the values static, fixed, relative, and sticky.	**04**
	(c)	Create below table using HTML	**07**

Student ID	Name	Subject	Grade
101	ABC	Maths	A
		Science	B
		English	A
102	PQR	Maths	B
		Science	A
		English	A
103	XYZ	Maths	A
		Science	A
		English	B

OR

	(c)	Design an HTML form to capture user information, including Name, Mobile Number, Email Address, Gender, Country, and Date of Birth. Ensure to assign suitable input types for each field.	**07**
Q.3	**(a)**	Explain any three CSS pseudo classes with example.	**03**
	(b)	Discuss various JavaScript pop-up boxes, providing appropriate examples for each.	**04**
	(c)	Design a webpage that features a form asking users to input a name. Upon clicking the submit button, the entered name should be dynamically added to an ordered list displayed on the same webpage. The list should expand dynamically as users continue to provide input.	**07**

OR

Q.3	**(a)**	Explain CSS wildcard characters *, ^ and $ in brief.	**03**
	(b)	Differentiate between Client-side scripting and Server-side scripting (Provide at least four points).	**04**

	(c)	Write a JavaScript program that dynamically creates a button element and appends it to an existing div element on the webpage. When clicked, the button should display an alert with a custom message.	**07**
Q.4	**(a)**	Discuss the difference between == and === operators in JavaScript with example.	**03**
	(b)	Write a JavaScript program that prompts the user to enter a URL and then opens the provided URL in a new browser window.	**04**
	(c)	Explain the process of validating the file type for a file uploaded by user in PHP, ensuring that it is a .pdf file. Include an example code snippet demonstrating how to implement this validation.	**07**

OR

Q.4	**(a)**	What is an event handler in JavaScript? explain with example.	**03**
	(b)	Develop a webpage that displays a countdown timer starting from 60 seconds and updates every second. Use JavaScript to implement this functionality, and ensure the timer stops when it reaches zero. Additionally, display a message when the timer finishes, indicating the end of the countdown.	**04**
	(c)	Explain how session variables are set, accessed, and unset in PHP. Provide examples including each operation.	**07**
Q.5	**(a)**	Create a PHP script that reads and displays the contents of a text file named "sample.txt". Assume that the file is located in the same directory as the PHP script.	**03**
	(b)	Explain any four superglobal variables in PHP.	**04**
	(c)	Explain the purpose of prepared statements in PHP when working with MySQL databases. Provide an example of using prepared statements to execute a query.	**07**

OR

Q.5	**(a)**	Explain how a constant variable can be created in PHP with example.	**03**
	(b)	Explain what an associative array is in PHP. How does it differ from a regular array? Provide an example of creating and accessing elements in an associative array.	**04**
	(c)	Develop a script that prompts the user to input an ISBN number of a Book. Upon submission, the script sends the ISBN number to a PHP script hosted on the server. The PHP script retrieves book details such as ISBN, title, author information, and price from a MySQL database. Convert this data into JSON format and send it back to the user as a response.	**07**

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Enrolment No./Seat No_____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI EXAMINATION – SUMMER 2025

Subject Code: 3160713 Date: 04-06-2025

Subject Name: Web Programming

Time: 10:30 AM TO 01:00 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.**

			MARKS
Q.1	**(a)**	Differentiate GET and POST method.	**03**
	(b)	What is HTTP? Explain HTTP Request and Response.	**04**
	(c)	Explain the points which should be considered for planning a website and also different design issue at the time of designing an effective website.	**07**
Q.2	**(a)**	What is navigation? List the characteristics of effective navigation.	**03**
	(b)	Explain following html tags with proper example. 1. <img> 2. <frameset>	**04**
	(c)	Explain different ways to write the CSS with example.	**07**
		OR	
	(c)	What is HTML form tag? Explain the different form attributes and design a simple form to register student including name, roll no., semester, email, mobile number, gender, hobbies, and feedback, and also create two buttons submit and reset.	**07**
Q.3	**(a)**	Explain pop-up boxes in Java-Script with example.	**03**
	(b)	Write Java Script to validate Mobile Number. 1) Entered value must be numeric 2) 10 digit length	**04**
	(c)	What is JavaScript event handling? List the major events and show use of at least one event by writing JavaScript code.	**07**
		OR	
Q.3	**(a)**	Explain Session & Cookie in PHP.	**03**
	(b)	Write a PHP script to print following pattern: 1 1 0 1 0 1 0 1 0 1 1 0 1 0 1	**04**
	(c)	What is PHP Form processing? Write an HTML and PHP program which accepts N as input and print N Fibonacci numbers as list.	**07**
Q.4	**(a)**	What is use of “break” and “continue” statements in PHP scripts?	**03**
	(b)	Write an HTML and JavaScript program which accepts N as input and print N is odd or even number.	**04**
	(c)	What is document object model? Explain any two objects with example.	**07**
		OR	
Q.4	**(a)**	Differentiate synchronous and asynchronous web programming.	**03**
	(b)	What are web services? Explain role of SOAP in Web services.	**04**
	(c)	Write a PHP script to open, close, read and write into a file.	**07**

Q.5	**(a)**	Explain callbacks in JavaScript.	**03**
	(b)	Explain the use of following arrays in PHP. 1) $_REQUEST [ ] 2) $_SERVER [ ]	**04**
	(c)	What is PHP? How can you connect to database in PHP? Show the simple database operation using PHP with proper example.	**07**

OR

Q.5	**(a)**	Explain Regular Expression in PHP.	**03**
	(b)	What is JQuery? What are the advantages of JQuery?	**04**
	(c)	Write HTML and PHP program to read and store book information such as book id, title, author and price from database table. Output the data to a webpage in tabular format.	**07**

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Enrolment No./Seat No_____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI (NEW) EXAMINATION – SUMMER 2024

Subject Code:3160713 Date:22-05-2024

Subject Name: Web Programming

Time: 10:30 AM TO 01:00 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.**

			MARKS
Q.1	**(a)**	Define following: 1. URL 2. HTTP 3. Web Server	**03**
	(b)	Write differences between client-side scripting and server-side scripting.	**04**
	(c)	What is cascading style sheet (CSS)? Compare inline, embedded and external style sheet with example.	**07**
Q.2	**(a)**	Differentiate GET and POST methods.	**03**
	(b)	Explain different design issues at the time of designing an effective website.	**04**
	(c)	Explain "class" and "id" in CSS with suitable example.	**07**
		OR	
	(c)	Explain usefulness of rowspan and colspan attributes in HTML Table. Also, Write HTML code to print the following table.	**07**

State of Health	Fasting Value	
	Minimum	Maximum
Healthy	70	100
Pre-Diabetes	101	126
Diabetes	More than 126	N/A

Q.3	**(a)**	Write a short note on error handling in JavaScript.	**03**
	(b)	Discuss callback in JavaScript with the help of appropriate example.	**04**
	(c)	Design Student registration form including rollno, name, password and mobile number using HTML. Also write JavaScript to validate following: • All Fields are compulsory. • Password length should be 6 to 8 characters long. • Mobile number must be of 10 digits only.	**07**
		OR	
Q.3	**(a)**	Explain different types of popup boxes in JavaScript.	**03**
	(b)	Write a short note on DOM (Document Object Model) in JavaScript.	**04**

	(c)	Write a java script to find whether entered number by user is prime or not.	**07**
Q.4	**(a)**	Explain ordered and unordered list in HTML with example.	**03**
	(b)	Explain types of loops in PHP.	**04**
	(c)	What are different types of arrays in PHP? Explain with example to process the arrays in PHP.	**07**
		OR	
Q.4	**(a)**	Write a note on Web services.	**03**
	(b)	Write a PHP code to demonstrate a calculator using switch case.	**04**
	(c)	Briefly discuss sessions and cookies in PHP using appropriate example.	**07**
Q.5	**(a)**	Write a short note on file handling in PHP.	**03**
	(b)	Write a note on AJAX.	**04**
	(c)	Design Employee form with Employee ID, Employee Name, Designation details with submit button using HTML. On clicking submit button, entered Employee details should be fetch and display on another webpage "EmpInfo.php".	**07**
		OR	
Q.5	**(a)**	Briefly discuss JSON.	**03**
	(b)	Write the differences between synchronous and asynchronous web programming.	**04**
	(c)	Discuss steps to connect database using PHP. Also, discuss any two database operations using proper example.	**07**

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Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI (NEW) EXAMINATION – SUMMER 2023

Subject Code:3160713 Date:12-07-2023

Subject Name:Web Programming

Time:10:30 AM TO 01:00 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.**

			MARKS
Q.1	**(a)**	What is HTTP? Explain HTTP Request and Response.	**03**
	(b)	Explain different design issues at the time of designing an effective website.	**04**
	(c)	(i) Write any two meta tag syntax to implement different features in html. (ii) Explain with example frames in HTML.	**07**
Q.2	**(a)**	What is bootstrap? What Bootstrap package contains?	**03**
	(b)	Explain with example: Ordered list and Unordered list.	**04**
	(c)	(i) Explain following with example: <pre> tag, <sup> tag, character encoding in HTML (ii) Explain HTML5 form validation attributes using example.	**07**
		OR	
	(c)	Explain HTML form attributes with syntax. Make HTML form to collect details of a book in library such as BookTitle (textbox), AuthorName (textbox), Publication (selectionbox), Domain (checkbox) and comments (textarea) in tabular format.	**07**
Q.3	**(a)**	Write the difference between POST and GET methods.	**03**
	(b)	Discuss following properties with respect to CSS. (1) Z-Index positioning (2) Relative positioning	**04**
	(c)	(i) Write a JavaScript that handles following mouse event. If the mouse is over heading, change font color to “green” and if the mouse goes out of the heading change it to “red”. (ii) Put three buttons “OPEN NEW WINDOW”, ”CLOSE CHILD WINDOW”, ”CLOSE MAIN WINDOW” in main HTML page. On click of first button, execute some JavaScript code that will open one child window. Clicking on second button, child window will close and clicking on third button, main html page will close.	**07**
		OR	
Q.3	**(a)**	Create a webpage containing one button. Clicking on this button, change the size of the window & position.	**03**
	(b)	What is Pseudo-Elements in CSS? Explain through example.	**04**
	(c)	(i) Explain different pop-up boxes of Javascript with suitable examples. (ii) Write HTML and JavaScript code to validate the email address using regular expression.	**07**

Q.4	**(a)**	What is the use of cookie in web programming? Write a code to set and display cookies in PHP.	**03**
	(b)	Explain any two event handlers for text box & text area in Java Script with Example.	**04**
	(c)	Write HTML and PHP program to read and store employee information such as e_id, e_name, e_dept, e_exp and e_salary from employee table. Make a search module to search a record from the database based on e_dept and display the result in tabular format.	**07**

OR

Q.4	**(a)**	Explain session in PHP with example.	**03**
	(b)	Explain any two event handlers for button in Java Script with Example.	**04**
	(c)	Write a web application code using PHP, HTML and MySql for Students that stores EnrollmentNo, Name, College, Branch, Year etc. in database. Make separate PHP file for each database operation like insert, update and delete operation.	**07**

Q.5	**(a)**	Differentiate between synchronous and asynchronous web programming.	**03**
	(b)	Write a PHP Script to display content of .txt file and display total number of words.	**04**
	(c)	Write AJAX code to demonstrate the use AJAX request-response mechanism.	**07**

OR

Q.5	**(a)**	What are APIs? How to use them?	**03**
	(b)	Explain the concept of state management using query string in PHP.	**04**
	(c)	(i) Explain jQuery load(), get() and post() methods with its syntax. (ii) What is web service? How we can create web service?	**07**

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Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI (NEW) EXAMINATION – SUMMER 2022

Subject Code:3160713 Date:08/06/2022

Subject Name:Web Programming

Time:10:30 AM TO 01:00 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.**

			MARKS
Q.1	**(a)**	Give full name of following acronym. 1) WWW 2) CSS 3) AJAX	**03**
	(b)	Explain different design issue at the time of designing an effective website.	**04**
	(c)	What is HTTP? Explain how browser and server communicate using HTTP request and response.	**07**
Q.2	**(a)**	Explain ordered list and unordered list in HTML.	**03**
	(b)	Explain following html tags with proper example. 1. <img> 2. <frameset>	**04**
	(c)	What is rowspan and colspan used in HTML? Give examples.	**07**
		OR	
	(c)	What do you mean by “class” and “id” in CSS? Explain with Example.	**07**
Q.3	**(a)**	Explain HTML media tags.	**03**
	(b)	What is positioning in CSS?	**04**
	(c)	What is document object model? Explain any two objects with example.	**07**
		OR	
Q.3	**(a)**	What is Bootstrap?	**03**
	(b)	What is CSS? Explain the different types of CSS.	**04**
	(c)	What is JavaScript event handling? List the major events and show use of at least one event by writing JavaScript code.	**07**
Q.4	**(a)**	Explain callbacks in JavaScript.	**03**
	(b)	Write an HTML and JavaScript program which accepts N as input and print N is odd or even number.	**04**
	(c)	What are the different types of arrays in PHP? Explain with examples.	**07**
		OR	
Q.4	**(a)**	Differentiate Client side scripting and Server side scripting.	**03**
	(b)	Explain file uploads in PHP.	**04**
	(c)	What is PHP Form processing? Write an HTML and PHP program which accepts N as input and print N Fibonacci numbers as list.	**07**
Q.5	**(a)**	Explain Regular Expression in PHP.	**03**
	(b)	How prepared Statement is executed in PHP?	**04**
	(c)	What is Cookie? How can we handle cookies in PHP?	**07**

OR

Q.5	**(a)**	What is JQuery? What are the advantages of JQuery?	**03**
	(b)	State the difference between synchronous and asynchronous web programming.	**04**
	(c)	Write HTML and PHP program to read and store book information such as book id, title, author and price from database table. Output the data to a webpage in tabular format.	**07**

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