

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VI EXAMINATION – WINTER 2025

Subject Code: 3160713

Date: 29-11-2025

Subject Name: Web Programming

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.

	MARKS
Q.1 (a) Briefly discuss : Client Server Architecture.	03
(b) Discuss website design principles in detail.	04
(c) Enlist and explain the usage of various formatting related tags available in HTML.	07
Q.2 (a) State different usages of <meta> tags.	03
(b) Briefly discuss various tags available in HTML5.	04
(c) Differentiate between class and id in CSS.	07
OR	
(c) Create an animation using CSS to rotate a rectangle by 360 degree around its center in 8 seconds.	07
Q.3 (a) Briefly discuss the types of JavaScript can be used in HTML pages.	03
(b) Write a note on : DOM.	04
(c) Write a JavaScript function to validate an email address using Regular Expression.	07
OR	
Q.3 (a) Briefly explain the types of popup boxes available in JavaScript.	03
(b) Define a JavaScript function to check whether a number given by user is a Palindrome number or not.	04
(c) How can you use function as an argument in JavaScript? Explain with suitable example.	07
Q.4 (a) Differentiate between Client Side Scripting and Server Side Scripting.	03
(b) Explain types of arrays available in PHP with suitable example.	04
(c) Create HTML form that will allow a candidate to enter his/her name and browse his/her photo and signature. Also write PHP code to upload Photo into “Candidate_Photos” and Signature into “Candidate_Signatures” folders on the server.	07
OR	
Q.4 (a) State and explain the syntax for variable declaration in PHP. Also enlist the rules to be followed for naming a variable in PHP.	03
(b) What is session? Explain with suitable example.	04
(c) Create HTML form that can accept Passenger details such as Name, Mobile, Email, Address, Gender, Photo etc. Also write PHP code to display the accepted details.	07

- Q.5** (a) What is AJAX? State the advantages of using AJAX. **03**
(b) Develop API using PHP to display a student's record whose Enrollment Number is passed as an argument. Consider Student_info table of College database in MySQL. Assume necessary fields. **04**
(c) Write PHP code to store Passenger Registration details such as Name, Email, Mobile, Gender, Address and Photo_URL into a MySQL table Passenger_info. Also implement necessary validations. **07**

OR

- Q.5** (a) Differentiate between Synchronous and Asynchronous Web Programming. **03**
(b) What is JQuery? Explain the steps to use JQuery in a webpage. **04**
(c) Write PHP code that demonstrates the usage of Prepared Statement. **07**

***It is advisable to put fundamental questions of respective subject in Q1, as it is compulsory question.**

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code:3160713

Date:02-12-2024

Subject Name:Web Programming

Time:02:30 PM TO 05:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
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4. Simple and non-programmable scientific calculators are allowed.

	MARKS
Q.1 (a) Give the full form of the following acronym. (i)WWW (ii)HTTP (iii)URL	03
(b) Explain the HTML List tag with example.	04
(c) List and explain types of CSS using suitable example.	07
Q.2 (a) What is Bootstrap? Why we use it.	03
(b) List and explain the website design issues.	04
(c) Explain frameset and frame tag with proper example.	07
OR	
(c) List and explain CSS selectors.	07
Q.3 (a) Explain Callbacks in JavaScript.	03
(b) Demonstrate functionality of following java script methods: substring, Slice, getDate, charAt	04
(c) Write a java script to find whether entered number by user is Prime or Not.	07
OR	
Q.3 (a) What is JavaScript? Discuss advantages of JavaScript.	03
(b) Explain error handling in JavaScript.	04
(c) Write a JavaScript program that accepts N as input and prints the first N odd numbers.	07
Q.4 (a) Explain Regular Expression in PHP.	03
(b) Differentiate between for and foreach statements in PHP.	04
(c) Develop a PHP Code which read student enrollment number and display student information from mysql database when user submit page.	07
OR	
Q.4 (a) Interpret PHP Function: Implode and Explode.	03
(b) Differentiate Cookie and Session.	04
(c) Write PHP program to store student registration data with mysql database.	07
Q.5 (a) Differentiate GET and POST methods	03
(b) Discuss jQuery Selectors with suitable example.	04
(c) Write a PHP script to sort the elements of an array.	07
OR	
Q.5 (a) Describe the role of the XMLHttpRequest object in AJAX.	03
(b) Differentiate synchronous and asynchronous web programming.	04
(c) Write a php code to upload file on server and display file details on the page.(Ex. File name, Extension, File Size)	07

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2023****Subject Code:3160713****Date:11-12-2023****Subject Name:Web Programming****Time:02:30 PM TO 05:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
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MARKS

- Q.1 (a)** Explain HTTP Request and Response with header details. Also explain various http status codes. **03**
- (b)** Enlist and explain the website design issues. **04**
- (c)** Write HTML code for creating following table also explain table element with its attributes. **07**

C1		C2	C3	
			<u>C3.1</u>	<u>C3.2</u>
R1	R1a	123	456	789
	<HTML>	$E=m*c^2$		

- Q.2 (a)** What is Metadata? How we can include Metadata is included in a document? Write meta tag syntax to implement following features in html: **03**
- (i) Set an expiration date
- (ii) Stop the browser from caching a page.
- (b)** Write a code for the given output using list in HTML. **04**
1. DoTNet
 2. Cyber Security
 3. WP
 - I. CSS
 - II. HTML
 - Table
 - frame
 - III. JS
 10. IoT
- (c)** (i) Explain frame and frameset with example. **07**
- (ii) Why we use bootstrap? Show a basic structure of bootstrap grid.

OR

- (c)** Explain HTML form attributes with syntax. Write a program to create sports registration page in HTML that contains EnrollmentNo(textbox), Secretkey(password), address(textarea), College(selectionbox), Branch(radiobutton), hobby(checkbox). **07**
- Q.3 (a)** What are the different ways to use JavaScript in html document? **03**
- (b)** What is the use wildcard selector in CSS? Discuss wildcard selectors with example. **04**

- (c) (i) Explain the Document Object Model. **07**
(ii) Write an HTML and JavaScript program that accepts N as input and print all prime numbers. (e.g. input N=10 then answer is 3,5,7)

OR

- Q.3** (a) Explain different types of Pop-box in JavaScript. **03**
(b) What do you mean by “class” and “id” in CSS? Explain with Example. **04**
(c) Write HTML and JavaScript code to validate the username and password. **07**
1. Both fields should not be blank.
 2. Username contains only number.
 3. Minimum password length 8.
 4. Password contains at least one capital letter, special character and number.
- Q.4** (a) Give the difference between Client side Scripting and Server Side Scripting. **03**
(b) What is JSON? Explain different methods used to convert JavaScript to JSON and vice versa through example. **04**
(c) Write HTML and JavaScript code to validate the mobile number and email address using regular expression. **07**

OR

- Q.4** (a) What is the use cookie in web programming? Write a code to set and display cookies in PHP. **03**
(b) Enlist and explain valid data types in JSON with syntax. **04**
(c) Write a PHP script to insert user details (firstname, lastname, email) in MySQL using prepared statement. **07**
- Q.5** (a) Explain the concept of classic web-application model. **03**
(b) Explain index and associative arrays in PHP with example. **04**
(c) Write AJAX code that creates a simple XMLHttpRequest to retrieve data from a TXT file. **07**

OR

- Q.5** (a) Explain the concept of AJAX web-application model. **03**
(b) Write a PHP script to print number of words in a given statement. **04**
(c) (i) What is the use of jQuery? Explain through its syntax. **07**
(ii) What is a web service? Write advantages and disadvantages of web services.
(iii) What is an API service? Write advantages and disadvantages of API services.

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI(NEW) EXAMINATION – WINTER 2022****Subject Code:3160713****Date:16-12-2022****Subject Name:Web Programming****Time:02:30 PM TO 05:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
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MARKS

- | | | |
|------------|--|-----------|
| Q.1 | (a) List and explain the website design principles. | 03 |
| | (b) Write a difference between following | 04 |
| | a) HTML and XHTML | |
| | b) Client-side scripting and Server-side scripting | |
| | (c) What is navigation? Discuss the characteristics of effective navigation. Also write code of html page to open a link in a new browser window. | 07 |
| Q.2 | (a) What are the key components of XML? | 03 |
| | (b) Explain with example frames in HTML. | 04 |
| | (c) Explain different ways to write the CSS with example. | 07 |
| | OR | |
| | (c) Write an HTML snippet with CSS for following effects | 07 |
| | 1. link: after visited red color and before visited green color | |
| | 2. table with even rows black and odd rows green color. | |
| | 3. Text color-green, Text case-uppercase | |
| Q.3 | (a) State full form of following acronym. | 03 |
| | (1) DOM (2) XSL (3) DTD (4) HTTP (5) PHP | |
| | (6) XML | |
| | (b) Explain meta tag? How it is useful by search engine? | 04 |
| | (c) Design a login form using HTML & JavaScript with following validations using Regular Expression on username and password fields. | 07 |
| | 1. Username and Password should not be both blank | |
| | 2. Username should not start with digit, _, @ or # | |
| | 3. Password length must be 8 to 16 characters | |
| | OR | |
| Q.3 | (a) What are web services? Explain role of SOAP in Web services. | 03 |
| | (b) What is FTP? Demonstrate functionality of various FTP commands in brief. | 04 |
| | (c) Write a PHP script to open, close, read and write into a file. | 07 |
| Q.4 | (a) Differentiate synchronous and Asynchronous web programming | 03 |
| | (b) Explain the use of following arrays in PHP. | 04 |
| | 1) \$_REQUEST [] 2) \$_SERVER [] | |
| | (c) Write a Java Script to read data from XML File and print it in tabular manner. | 07 |
| | OR | |
| Q.4 | (a) List some advantages of JavaScript. | 03 |
| | (b) Explain in brief about XSL and XSLT with example. | 04 |

- (c) Develop a web application code using PHP, HTML and MySQL for Students that stores student's enrolment no., name, semester, gender, qualification, etc. in database. Create proper GUI including buttons that run separate .php file for each database operation like insert, update, delete etc. **07**
- Q.5 (a)** Explain Following XSL **03**
 i) Value-of
 ii) Sort
- (b)** Explain database connectivity in PHP with example. **04**
- (c)** What is query string? How is it transmitted to the server with the GET and POST methods? **07**
- OR**
- Q.5 (a)** What PHP can do with header () function? **03**
- (b)** Create an HTML and JavaScript program which accepts N as input and print first N odd numbers. **04**
- (c)** Explain PHP? How can you connect to database in PHP? Show the simple database operation using PHP with proper example. **07**
