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.
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 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	
			C3.1	C3.2
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 than answer is 3,5,7)

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OR

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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**

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OR

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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**

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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.

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