Seat No.: _____                                    Enrolment No._____

# GUJARAT TECHNOLOGICAL UNIVERSITY
## BE - SEMESTER– VI (NEW) EXAMINATION – WINTER 2021

Subject Code:3160713                                    Date:02/12/2021

**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 between GET and POST method                                                                                                                                                                 | 03    |
|       | (b) | Write a HTML snippet to show each letter of a word RAINBOW with new color, giving a rainbow effect.                                                                                                       | 04    |
|       | (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 is the role of Cache and Cookies in the browser?                                                                                                                                                     | 03    |
|       | (b) | Write a difference between following                                                                                                                                                                      | 04    |
|       |     | a) HTML and XHTML                                                                                                                                                                                         |       |
|       |     | b) Client side scripting and Server side scripting                                                                                                                                                        |       |
|       | (c) | What is HTML form tag? Discuss 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    |

**OR**

|       |     |                                                                                                                                                 | MARKS |
|-------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|       | (c) | What is HTML table? Explain table element tr, td, th, rowspan and colspan. Write HTML code to print following time table                       | 07    |

| Day       | Lecture Timings   |                   |                 |
|-----------|-------------------|-------------------|-----------------|
|           | 10:30am-11:30am   | 11:30am-12:30am   | 1:00am-2:00am   |
| Monday    | DS                | SE                | WP              |
| Tuesday   | OS                | CN                | ML              |
| Wednesday | DS                | WP                | CN              |
| Thursday  | OS                | SE                | ML              |
| Friday    | Test day          |                   |                 |

|       |     |                                                                                                                                                                                                                | MARKS |
|-------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Q.3   | (a) | What is CSS? What is the importance of CSS? List out the different ways to write CSS.                                                                                                                          | 03    |
|       | (b) | What do you mean by meta tags? Show how can following be achieved with the help of metadata?                                                                                                                  | 04    |
|       |     | a) Stop the page from being listed                                                                                                                                                                           |       |
|       |     | b) Set an expiration date                                                                                                                                                                                    |       |
|       |     | c) Stop the browser from caching a page                                                                                                                                                                      |       |
|       | (c) | Design a form using HTML and JavaScript that asks the users to enter his date of birth and on clicking the calculate Button it calls the function that calculates how many days are left in your birthday?    | 07    |

**OR**

|       |     |                                                          | MARKS |
|-------|-----|----------------------------------------------------------|-------|
| Q.3   | (a) | What is meta tag? How it is useful by search engine?     | 03    |
|       | (b) | Explain pop-up boxes in Java-Script with example         | 04    |
|       | (c) | Explain event handling in JavaScript with proper example.| 07    |

| Q.4 | (a) | Explain DOM with example. | 03 |
|------|------|------|------|
| | (b) | List and explain various list tags in HTML with examples | 04 |
| | (c) | Write and explain rules for well-formed XML documents | 07 |

**OR**

| Q.4 | (a) | What are web services? Explain role of SOAP in Web services. | 03 |
|------|------|------|------|
| | (b) | Give a full form of following:<br>    (1) DTD  (2) WAP (3) WML (4) SOAP | 04 |
| | (c) | Develop XML file for book record and also write a DTD and XSL for it. | 07 |

| Q.5 | (a) | Differentiate synchronous and Asynchronous web programming | 03 |
|------|------|------|------|
| | (b) | Write a PHP script to print following pattern<br>1<br>10<br>101<br>0101<br>10101 | 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 Following XSL<br>    i)    Value-of<br>    ii)   Sort | 03 |
|------|------|------|------|
| | (b) | Write PHP script to make sum of first 10 even numbers. | 04 |
| | (c) | Write a web application code using PHP, HTML and MySQL for Employees that stores employee's id, name, department, designation, etc. in database. Create proper GUI including buttons that run separate .php file for each database operation like insert, delete, update etc. | 07 |

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