

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2024****Subject Code:2160708****Date:22-05-2024****Subject Name:Web Technology****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.

- Q.1**
- (a) List and explain the website design principles. **03**
- (b) Explain following HTML tags with example **04**
(i) <select> (ii) <pre>
- (c) What is HTTP? **07**
How do browser and server communicate using HTTP request and response? Explain with example.

- Q.2**
- (a) XHTML is stricter language than HTML. Justify. **03**
- (b) Write the Difference between POST and GET methods. **04**
- (c) Design Login Page HTML. Page must have fields in page Username, Password, Remember Me and Login Button. **07**

OR

- (c) What is HTML table? Explain table element with necessary attributes. **07**
Give the code to print following table.

Date	Exam Time table		
	CE/IT	EC	EE
30/11/2018	WT	VLSI	HVE
04/12/2018	CG	OC	ED/CAD

- Q.3**
- (a) What is well-formed XML document? **03**
- (b) Write a JavaScript, that uses a loop, that searches a word in sentence held in an array, returning the index of the word. **04**
- (c) Design a login form with username and password option using HTML and JavaScript. Perform following validations. **07**
- (i) Username field: minimum length 6 characters, it should not have any special character or digits other than _
- (ii) Password field: minimum length 8 characters and maximum length 12 characters, it must contain at least one digit and at least one special character from the set {*,#,_}

OR

- Q.3**
- (a) Differentiate session and cookies in PHP. **03**
- (b) Why do you need validation? Write HTML and JavaScript code to validate the email address using regular expression. **04**
- (c) Write Java Script to validate Mobile Number. **07**
- 1) Entered value must be numeric
- 2) 10 digit length

- Q.4**
- (a) Explain ordered and unordered list with example. **03**
- (b) Write an HTML and JavaScript program which accepts N as input and print first N odd numbers. **04**
- (c) Write PHP code to read data from a text file and display it in browser. **07**

OR

- Q.4** (a) What is the difference between Class and Id selector? **03**
(b) What is java Script? Explain characteristics of Java Script. **04**
(c) Write PHP code to check the number is even or odd. **07**

- Q.5** (a) Explain require() and include() functions in PHP. **03**
(b) Explain the use of following arrays in PHP. **04**
1) \$_REQUEST [] 2) \$_SERVER[]
(c) What are the different types of arrays in PHP? Explain with example to process the arrays in PHP. **07**

OR

- Q.5** (a) What PHP can do with header() function? **03**
(b) What is DTD? Give and explain the sample DTD. **04**
(c) Write 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**
