Seat No.: _____   Enrolment No._____

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.**
3. **Figures to the right indicate full marks.**
4. **Simple and non-programmable scientific calculators are allowed.**

			MARKS
Q.1	**(a)**	List and explain the website design principles.	**03**
	(b)	Write a difference between following a) HTML and XHTML b) Client-side scripting and Server-side scripting	**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 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 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	**07**
Q.3	**(a)**	State full form of following acronym. (1) DOM (2) XSL (3) DTD (4) HTTP (5) PHP (6) XML	**03**
	(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. 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	**07**
		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. 1) $_REQUEST [ ] 2) $_SERVER [ ]	**04**
	(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**

<div align="center">OR</div>

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**

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