



Tribhuvan University
Faculty of Humanities and Social Science
Semester: III

Subject: Web Technology

2023

Group B

Attempt any SIX questions

2. What is an image map? Describe the key steps involved in creating a client image map in HTML using necessary tags and attributes.
3. What is session? Explain how session works with proper example.
4. What is CSS? Explain CSS Box model along with its related properties and example.
5. What is tier Architecture? Differentiate two-tier technology with three-tier technology.
6. What is web server? Explain different functions of web server.
7. What is well formed XML? Explain different ways of DTD implementation for XML documents.
8. Define XPath? Explain different elements required to create XSLT document.

Group C

Attempt any TWO questions

9. Design form to accept name, email, phone, gender, country and validate them using server script with following rules and store them into database called "store" and table "information".
 - All fields are required.
 - Phone number must contain 10 digit
 - Email must be valid format
10. Write HTML and CSS code to design following layout.

Phone:01-545454545 Address: Kirtipur Kathmandu		Social Media List(Link)
Logo[Image]	Website Name[h1]	
Menu		
Recent Posts <ul style="list-style-type: none">• Post 1 title• Post 2 title• Post 3 title• Post 4 title• Post 5 title		<div>[Image]</div> <div>Description.....(Paragraph)</div>
Copyright @unibytes.xyz		

11. Write a valid and well-formed xml to store details of visitor list of ABC College with following details and validate record with following information.
 - a) Record must include details of name, mobile, department, related contact person, date, entry time, exit time and visitor number as attribute.
 - b) Mobile must be 10 digit. iii. Visitor may not have any contact person .
 - c) Record must belongs to Admin, IT, Account and Exam Department.

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Group B

Attempt any SIX questions

2. Create the following table using the HTML elements.

Magic Table			
	8	7	80
20	40		
	25	50	
60	90		30

3. What are the various font-related attributes in CSS? Explain with suitable example.
4. How does Tier Technology function inside the architectural framework of a web application?
5. How does a web server process and handle HTTP requests and responses with example?
6. Create a server site script to use cookie variables for the login and logout process without using databases.
7. Use server-site scripting to calculate the x using the data from two text boxes.
8. What are the new form elements introduced in HTML5 and how do they differ from previous versions?

Group C

Attempt any TWO questions

9. Given an XML document that contains a list of products with the following elements: productname, category, price, and quantity, write an XSLT stylesheet that:
- Filters out any products that have a quantity less than 10
 - Groups the remaining products by category and creates a new XML document with a new element called "category" that contains the products within that category as child elements.
 - Within each category element, sorts the products by price in descending order.
 - Transforms the element "productname" into an attribute of each product element.
 - Add a new element called "total-price" to each product element, which contains the total price of the product (price quantity)

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10. Make a script for the server site to display the following data by reading from a database and saving any new values that the user has updated. Think about the specifications of your own database, if any.

Update Form

choose ID: ☒

Username:

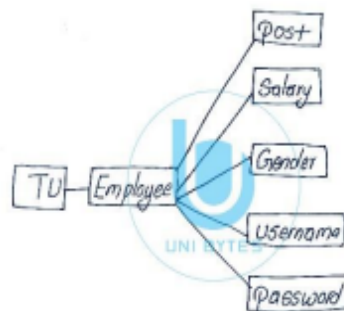
Password:

Confirm password:

Email:

11. Make a well-formed XML document as per the diagram below, then use an appropriate XSD document to validate it in consideration with below restrictions.

XSD Restrictions:



- The username must have a minimum of 8 characters.
- The character limit for posts is 5 to 8.
- The password must be 8 characters long and begin with Aa-Zz.
- The gender must be one of male, female, or other.
- The salary should range from Rs. 25,000 to Rs. 50,000.

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2021

Group B

Attempt any SIX questions

2. Enlist and explain method of using CSS in web page.
3. Write a form to collect details of a user such as name, address, radio button to choose subject of book he wants to buy, dropdown to choose favorite author.
4. Explain Tier Technologies with example.
5. How XSL is different from CSS? Explain.
6. Define Session. Explain us use with example.
7. Write an example of server side script to insert data in database.
8. Explain the following with example:
 - a) <table> tag
 - b) Image map

Group C

Attempt any TWO questions

9. Write an HTML script with CSS for following elements with effects
 - a. Link: after visited red color and before visited blue color
 - b. Table with odd rows pink and even rows blue color.
 - c. Text color-green, Text-indentation-2cm, Text case-uppercase
10. Explain the key component of XML file. Write an XML to describe "address" as an element and "state, city, municipality and house-no" as it's attributes. Also define XSD for the XML file.
11. Write a server side script for implementing login. Your program should take username and password as input and redirect to home page if validated otherwise prints an error "try again".
- 12.

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2020

Group B

Attempt any SIX questions

2. What is HTML5? Explain characteristics of HTML5.
3. Write HTML tag to generate the following table.

	Average		Red
	Height	Weight	Eyes
Males	1.5	0.004	45%
Females	1.4	0.006	47%

4. Design the following website's Menu with use of HTML list and appropriate CSS.
Home | News | Contact | About
5. Compare and contrast between a block-level element and an inline element in HTML?
6. What is CSS Selector? Explain different types of selector with suitable example.
7. Why session is required in web development? Explain how you set and remove values stored in Session with suitable example?
8. Critically analysis the pitfall of the 3-tier technology in comparison with n-tier technology.

Group C

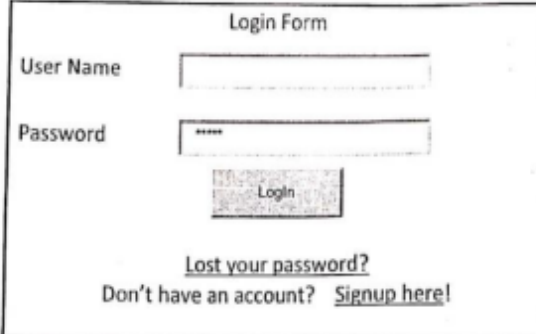
Attempt any TWO questions

9. Design the following layout of webpage with use of div and appropriate CSS.

Logo	
Navigation	
Header Banner	
Side Bar	Body Area
Footer	

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10. Write a server-side script for login process assume that user name and password have already exist on database TU under the user table (id, user, password).



Login Form

User Name

Password

[Lost your password?](#)

Don't have an account? [Signup here!](#)

11. What are the rules for Well-formed xml document? Create a sample well-formed xml and validate it with DTD Schema.

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2019

Group B

Attempt any SIX questions

2. What is CSS? Discuss types of CSS with example.
3. What is XML? Differentiate XML schema with DTD.
4. List common application of web server, Explain how session works.
5. Describe the tags and attributes for a form in HTML document?
6. What is anonymous access? Discuss about Integrated windows authentication.
7. Explain tire technology with examples?
8. Write short note on following:
 - Cookies
 - XML DOM

Group C

Attempt any TWO questions

9. Differentiate between tags and attributes? Write a HTML and CSS code design your curriculum vitae (CV) using different html elements like (table, image, formatting tags, links).
10. Develop a simple web page that asks the users input (name, email, phone, gender) and store into database using server side script.
11. What are the rules for creating XML document? Write a XML code to store following information about student.
 - Each student has a name, address, phone and website element.
 - Address might appears multiple times
 - Address has attribute named "type" with value permanent and temporary must be 10 digit.

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