

Tribhuvan University

Faculty of Humanities & Social Sciences OFFICE OF THE DEAN

2021

Bachelor in Computer Applications

Course Title: Web Technology

Code No: CACS205

Semester: III

Full Marks: 60

Pass Marks: 24

Time: 3 hours

Batch: 2020

Candidates are required to answer the questions in their own words as far as possible.

Group B

Attempt any SIX questions.

 $[6 \times 5 = 30]$

2. Create the following table using the HTML elements. [5]

18	Mag	ic Table	
8		7	80
20	40		- 80
20	25	Castoner word	50
60	90		30

- 3/ What are the various font-related attributes in CSS? Explain with suitable example. [2+3]
- 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? [5]
- 6. Create a server site script to use cookie variables for the login and logout process without using databases. [5]
- 7/Use server-site scripting to calculate the x^n using the data from two text boxes. [5]
- 8. What are the new form elements introduced in HTML5 and how do they differ from previous versions? [5]

Group C

Attempt any TWO questions.

 $[2 \times 10 = 20]$

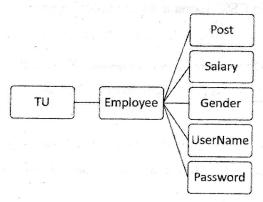
- 9. Given an XML document that contains a list of **products** with the following elements: *productname*, *category*, *price*, *and quantity*, write an XSLT stylesheet that: [2+2+2+2]
 - a) Filters out any products that have a quantity less than 10
 - b) Groups the remaining products by category and creates a new XML document with a new element called "category" that contains the products within that category as child elements.
 - c) Within each category element, sorts the products by price in descending order.
 - d) Transforms the element "productname" into an attribute of each product element.
 - e) Add a new element called "total-price" to each product element, which contains the total price of the product (price * quantity)

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.

UpdateForm ———	
Choose ID: 1 ~	
UserName :	
Superuser	
Password:	
****	the state of the s
Confirm Password:	

Email:	
admin@gmail.com	
Update	

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. [2+2+2+2+2]



XSD Restrictions:

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