



Daffodil International University

Faculty of Science & Information Technology

Department of Computing and Information System

Final Examination, Summer-2026

Course Code: CIS133, Course Title: Web Development Essentials

Level: 1 Term: 3

Exam Duration: 2 Hours

Marks: 40

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

1.	a)	What are HTML attributes? Explain the difference between block-level and inline elements in HTML. Give suitable examples of each.	5	CO1								
	b)	What are CSS selectors? Explain the CSS Box Model. Describe the roles of content, padding, border, and margin with a suitable diagram/example.	5									
2.	a)	Construct an HTML registration form for a university workshop using a table layout. The form should include fields for Participant Name, Email Address, and Contact Number. There should also be a Preferred Workshop Topics using checkboxes. Finally, the form must contain both a Submit button and a Reset button to allow users to submit the form or clear the entered information. The code output should be: University Workshop Registration Form <table border="1"><tr><td>Participant Name</td><td> </td></tr><tr><td>Email Address</td><td> </td></tr><tr><td>Contact Number</td><td> </td></tr><tr><td>Preferred Workshop Topics</td><td>☐ Artificial Intelligence ☐ Web Development ☐ Data Science</td></tr></table> Submit Reset	Participant Name		Email Address		Contact Number		Preferred Workshop Topics	☐ Artificial Intelligence ☐ Web Development ☐ Data Science	5	CO2
Participant Name												
Email Address												
Contact Number												
Preferred Workshop Topics	☐ Artificial Intelligence ☐ Web Development ☐ Data Science											
	b)	Write HTML markup to produce the following formatted text: i. Warning: Please save your work before closing the browser. ii. My favorite book is <i>The Alchemist</i> by Paulo Coelho. iii. The chemical formula of sulfuric acid is H_2SO_4 . iv. The area of a circle is $A = \pi r^2$. v. The original price was Tk. 500Tk. 5000Tk. 1 but the discounted price is Tk. 900.	5									

3.	a)	Generate the following webpage using HTML and CSS. The required images are provided as <u>A.jpg</u>, <u>B.jpg</u>, and <u>C.jpg</u>. [Section Title Goes Here]  Feature Title One Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna.  Feature Title Two Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna.  Feature Title Three Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna.	5	CO3																													
4.	b)	Construct the following Table using HTML & internal CSS. [Font name = "Times New Roman".] Seminar Schedule <table><tr><th rowspan="3">Day</th><th colspan="3">Seminar</th></tr><tr><th colspan="2">Schedule</th><th rowspan="2">Topic</th></tr><tr><th>Begin</th><th>End</th></tr><tr><td rowspan="2">Monday</td><td>8:00 a.m.</td><td>5:00 p.m.</td><td>Introduction to XML</td></tr><tr><td colspan="2"></td><td>Validity: DTD and Relax NG</td></tr><tr><td rowspan="3">Tuesday</td><td>8:00 a.m.</td><td>11:00 a.m.</td><td rowspan="2">XPath</td></tr><tr><td>11:00 a.m.</td><td>2:00 p.m.</td></tr><tr><td>2:00 p.m.</td><td>5:00 p.m.</td><td>XSL Transformations</td></tr><tr><td>Wednesday</td><td>8:00 a.m.</td><td>12:00 p.m.</td><td>XSL Formatting Objects</td></tr></table>	Day	Seminar			Schedule		Topic	Begin	End	Monday	8:00 a.m.	5:00 p.m.	Introduction to XML			Validity: DTD and Relax NG	Tuesday	8:00 a.m.	11:00 a.m.	XPath	11:00 a.m.	2:00 p.m.	2:00 p.m.	5:00 p.m.	XSL Transformations	Wednesday	8:00 a.m.	12:00 p.m.	XSL Formatting Objects	5	
Day	Seminar																																
	Schedule			Topic																													
	Begin	End																															
Monday	8:00 a.m.	5:00 p.m.	Introduction to XML																														
			Validity: DTD and Relax NG																														
Tuesday	8:00 a.m.	11:00 a.m.	XPath																														
	11:00 a.m.	2:00 p.m.																															
	2:00 p.m.	5:00 p.m.	XSL Transformations																														
Wednesday	8:00 a.m.	12:00 p.m.	XSL Formatting Objects																														
4.	a)	You are developing a simple password validation system for a website. Each user creates a password during registration. Develop a JavaScript program that: 1. Takes a password as input. 2. Checks the <u>length of</u> the password according to the given conditions. 3. Displays the appropriate validation message. Conditions: • If the password is less than 5 characters, display "Password Unacceptable". • If the password is 5 to 10 characters, display "Weak Password".	4	CO4																													

	• If the password is more than 10 characters, display "Strong Password". Sample Input: abc Sample Output: Password Unacceptable					
b)	A small online bookstore stores information about a book using a JavaScript object. The object contains the <u>book title, price, quantity, and discount percentage</u>. Write a JavaScript program to create an object named <u>book</u>, with appropriate values and perform the following tasks: 1. Display the book title. 2. Calculate the <u>total price</u> based on the <u>price and quantity</u>. 3. Calculate the <u>discount amount</u>. 4. Calculate the <u>final price</u> after applying the discount. 5. If the final price is greater than <u>5000</u>, display "<u>Premium Purchase</u>"; otherwise, display "<u>Regular Purchase</u>".	6				
<table border="1"><thead><tr><th>Sample Input</th><th>Expected Output</th></tr></thead><tbody><tr><td>Title: "JavaScript Basics" Price: 1200 Quantity: 5 Discount: 10</td><td>Book: JavaScript Basics Total Price: 6000 Discount: 600 Final Price: 5400 Premium Purchase</td></tr></tbody></table>			Sample Input	Expected Output	Title: "JavaScript Basics" Price: 1200 Quantity: 5 Discount: 10	Book: JavaScript Basics Total Price: 6000 Discount: 600 Final Price: 5400 Premium Purchase
Sample Input	Expected Output					
Title: "JavaScript Basics" Price: 1200 Quantity: 5 Discount: 10	Book: JavaScript Basics Total Price: 6000 Discount: 600 Final Price: 5400 Premium Purchase					