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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** Participant Name [ ] Email Address [ ] Contact Number [ ] Preferred Workshop Topics ☐ Artificial Intelligence ☐ Web Development ☐ Data Science [Submit] [Reset]	5	CO2
	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 *The Alchemist* 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	

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3.	a)	Generate the following webpage using HTML and CSS. The required images are provided as A.jpg, B.jpg, and C.jpg. **[Section Title Goes Here]**  	5	CO3
	b)	Construct the following Table using HTML & internal CSS. [Font name = "Times New Roman". **Seminar Schedule** See table below.	5	
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 length of 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

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

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- 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 **book title, price, quantity, and discount percentage.** Write a JavaScript program to create an object named `book` with appropriate values and perform the following tasks: **6**

1. Display the book title.
2. Calculate the **total price** based on the price and quantity.
3. Calculate the discount amount.
4. Calculate the **final price** after applying the discount.
5. If the final price is greater than **5000**, display `"Premium Purchase"`; otherwise, display `"Regular 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`

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