



Daffodil International University
Faculty of Science & Information Technology
Department of Computer Science & Engineering
Mid Examination, Summer 2025
Course Code: CSE415, Course Title: Web Engineering
Level: 4 Term: 2 Batch: 61

Time: 01:30 Hrs

Marks: 25

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.		"The World Wide Web is an application using the Internet to transmit information."		CO1
	a)	Explain the statement by comparing the roles of the Internet and the World Wide Web.	[2.5]	
	b)	A non-technical client wants a new e-commerce website. They give you the following two requirements: - Users must be able to create an account and log in. - The website must be very fast and easy to use Identify Functional Requirement and Non-Functional Requirements	[2.5]	
2.	a)	Explain the Client-Server paradigm.	[2]	CO3
	b)	What does it mean for HTTP to be a "stateless" protocol? How does this statelessness impact the user experience on a modern e-commerce site?	[3]	
3.		You are creating a " Device Registration " form for a company's new product line. The form requires a <u>device name</u> , a unique <u>serial number</u> , <u>serial number confirmation</u> and <u>other necessary information</u> . You must implement client-side validation to guide the user before submission.		CO4
	a)	Write the HTML code for the registration form. Analyze and apply necessary information to the structure.	[5]	
	b)	Write the CSS rules needed to provide visual feedback for the validation. Your CSS must include a rule to provide a basic, readable layout, error status with color to any input field that fails validation.	[4]	
	c)	Describe the logic and write the function structure for validating the form upon submission. You must ensure- i. On form submit, prevent default and validate ii. Device Name: required → else show "Device Name is required." iii. Serial Format: must be XXXX-YYYY → else show "Invalid Serial Number format. Must be XXXX-YYYY" iv. Match Serial: confirm matches → else show "Serial Numbers do not match."	[6]	