

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.]

200	$\overline{}$		and the second second	-
1.		"The World Wide Web is an application using the Internet to transmit		
	L	information."		
	a	t and the world	[2.5]	
	_	Wide Web.		
1	b	wants a new e-commerce website. They give you me	[2.5]	COI
		following two requirements:	,	
		- Users must be able to create an account and log in.		
	1	- The website must be very fast and easy to use		
		Identify Functional Requirement and Non-Functional Requirements		
2.	. a	Explain the Client-Server paradigm.	[2]	
	b	What does it mean for HTTP to be a "stateless" protocol? How does this	[3]	CO3
	_	statelessness impact the user experience on a modern e-commerce site?		
3.		You are creating a "Device Registration" form for a company's new product		
	1	line. The form requires a device name, a unique serial number, serial number		
		confirmation and other necessary information. You must implement client-side		
		validation to guide the user before submission.		1
	(a)	to the result of	[5]	1
		information to the structure.		
	b)	I amount tot the validation. Total	[4]	7
	10	CSS must include a rule to provide a basic, readable layout, error status with	1	1
		color to any input field that fails validation.		CO ₄
	c)	Describe the logic and write the function structure for validating the form	[6]	-
		upon submission. You must ensure-	101	
	- 1	i. On form submit, prevent default and validate		1
1	- [ii. Device Name: required → else show "Device Name is required."		1
		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."		