

Daffodil International University Faculty of Science & Information Technology Department of Computer Science and Engineering Mid Examination, Spring 2025

Course Code: CSE414 Course Title: Web Engineering Level: 4 Term: 2 Batch: 60

Time: 1:30 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.	a)	a) A software development team has just completed building a new web application. Before the app is launched, the team performs various checks to ensure that all features are functioning as specified in the project requirements, such as the login feature and search function. They also test whether the app is compatible with different devices and operating systems. Based on the scenario, describe the difference between verification and validation in the web app development process.					CO2
	b)	During the development of a new website, the team follows a structured approach to ensure the site is free of defects, conducting various tests at different stages, from initial development to post-launch updates. Based on your understanding, demonstrate how many stages of testing are involved in the website development process.					
	c)	locations to improve performance and fault tolerance. They are exploring various options for structuring the system to support this distributed setup. What types of distributed systems are you familiar with, explain the benefits of each.					-
2.	Nexora Tech is managing an online store that sells various tech products. They need to create a table to display product details, including the product ID, name, price, and availability information while organizing the data with clear rows and columns. Considering their needs construct the following table using proper HTML, and CSS code.					[7]	CO3
	Product ID		Product Information Availability			2 13 15 15	
			Name	Price			
	101		Smartphone	\$799	In Stock Available Online	[8]	
			Smartphone Pro	\$999			
			Laptop	\$1299	In Stock Available in Stores		
	103		Tablet	\$499	Limited Stock		
			Tablet Pro	\$649			
3.	regisubi vali leas follat le Pas Java and	stration systemitting the followed the follo	developing an online for students. Before, the system showing: the Name must be so long, the Email munat, the Password must be straight and the Confinatch the Password. Wropapply input validation priate error messages for	nre Name: [Name mus at Email: [Ist Please ente be Password rm Password r Confirm ns Confirm Pa	Name must be at least 3 characters long		cos