

**National University of Computer and Emerging Sciences, Lahore Campus**

	<b>Course Name:</b>	Web Programming		
	<b>Program:</b>	BS CS		
	<b>Section:</b>	BCS-7B	<b>Marks:</b>	10
	<b>Exam Type:</b>	Quiz 4A	<b>Roll No:</b>	
<b>Student Name:</b>				

**Q1:** How do useEffect and useMemo differ in terms of their purpose and execution in React? **(4)**

**Q2:** Create a **Login** Form Component with **username** and **password** input fields, two-way data binding using useState and a submit button that alerts the username when clicked and prevents default behaviour. **(6)**



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**Q1:** What is the difference between React.memo and useMemo? In which scenario would you use each of them? (4)

**Q2:** Create a **Product** component that takes **name** and **price** as props and displays them inside a <div>. In the **App** component, define an array of products with at least two objects, each containing name and price. Render multiple Product components dynamically inside the App component. (6)

