Bootstrap, React, JavaScript and CSS Practical Questions

Bootstrap Questions

1. Create a Bootstrap NavBar, showing Navbar links on large screens and a nav icon on small screens.

2. Create a Responsive Grid Layout with 3 Cards Using Bootstrap 5.

React Questions

1. Create a component with a button that increases a count value using useState. Display the count on the screen.

2. Create a component with a button. On each click, toggle between "Hello" and "Welcome Back" using useState.

3. Create a ParentComponent and a ChildComponent. Pass the message "Good morning" as a prop from the parent to the child, and display it in the child component.

4. Create three components: GrandParent → Parent → Child. Pass a message "Hello from GrandParent" from GrandParent to Child using props.

5. Given an array of names: ["John", "Jane", "Alex"], render each name inside a list (
) using .map() in JSX.

6. Create a checkbox. If it is checked, display the message "You checked the box!".

7. What are controlled components in React? Create an example using an input field.

8. Build a reusable InputField component. It should accept label, placeholder, name, and onChange as props.

9. Implement a login form that disables the submit button until both input fields are filled.

10. Create a list of items with a delete button for each. Use useState to update the UI when an item is deleted.

11. Create a Todo App with "Add" and "Delete" functionality using useState.

12. Implement a counter that increases on click and resets to 0 if it reaches 10.

JavaScript Questions

1. Write a function to find the most repeated character in a string.
Example: "aabbbcc" → Output: "b"

2. Write a function that finds unique elements in two arrays.
Example:
Input: [1, 2, 3] and [2, 4, 5]
Output: [1, 3, 4, 5]

3. Write a function that finds the longest word in a sentence.
 Example: "JavaScript is powerful" → Output: "JavaScript"

4. Create a chainable function that allows method chaining like:
 chain(5).add(2).subtract(1).result() → Output: 6

5. Explain hoisting in JavaScript with a practical example.

CSS Question

1. What is the difference between em, rem, px, and % in CSS?
 Show practical CSS examples that demonstrate each unit's behavior.