					1.	Explain how JWT-based authentication works in a MERN stack application. Why is it more secure than storing tokens in localStorage? (2 marks)
						Answer:
2.	Differentiate between SSR (Server-Side Rendering) and CSR (Client-Side Rendering). In what cases would you prefer Next.js over React?					

(2 marks)

Answer:

3. What is the purpose of useMemo and useCallback in React? Give a scenario where using them is important.

(2 marks) Answer:

- **Section B: Code Output or Debug (Each 1.5 marks × 2 = 3 marks)**
 - 4. What will be the output of the following Node.js code snippet? Explain your answer briefly.

```
console.log("Start");
setTimeout(() => {
  console.log("Inside Timeout");
}, 0);
console.log("End");

(1.5 marks)
Answer:
```

5. Find and fix the issue in the following React code:

```
useEffect(() => {
  async function fetchData() {
    const res = await axios.get('/api/data');
    setData(res.data);
  }
}, []);

(1.5 marks)
Answer:
```

Section C: Real-life Scenario / Logic Building (6 marks)

6. You are building an e-commerce application. Users can add items to the cart. Create the MongoDB schema for a Cart model where each user can have multiple products, with quantity and price, and calculate total cart value dynamically.

Bonus: Describe how you would store session-wise carts for unregistered users.

(6 marks)

Answer:		

✓ Instructions for Examiner:

- Pass mark: 8/15
- Strong conceptual understanding + clean, structured answer should be rewarded
- Extra credit if the candidate explains beyond the question (e.g., edge cases or optimization)