

<b>Started on</b>	Wednesday, 21 May 2025, 1:04 PM
<b>State</b>	Finished
<b>Completed on</b>	Wednesday, 21 May 2025, 1:18 PM
<b>Time taken</b>	14 mins
<b>Marks</b>	27.00/30.00
<b>Grade</b>	<b>90.00</b> out of 100.00

### Question

**1**

Complete

Mark 1.00 out of 1.00

Which of the following is NOT a valid JavaScript iterable?

Select one:

- ☒ a. Object
- ☐ b. Array
- ☐ c. String
- ☐ d. Set

### Question

**2**

Complete

Mark 1.00 out of 1.00

What does the “this” keyword refer to in a regular function (non-arrow) in strict mode?

Select one:

- ☐ a. The event object
- ☐ b. The function itself
- ☒ c. Undefined
- ☐ d. Global object

### Question

**3**

Complete

Mark 0.00 out of 1.00

Which feature allows React to batch multiple state updates into a single render?

Select one:

- ☒ a. Virtual DOM
- ☐ b. Concurrent Mode
- ☐ c. Fiber architecture
- ☐ d. Refs

## Question 4

Complete

Mark 1.00 out of 1.00

In a React component, what does `defaultProps` do?

Select one:

- ☐ a. Forces prop types
- ☐ b. Declares event listeners
- ☐ c. Prevents prop mutation
- ☒ d. Sets fallback values for props

## Question 5

Complete

Mark 1.00 out of 1.00

What must be used with `React.lazy()` to handle loading states?

Select one:

- ☐ a. **React.Portal**
- ☐ b. **React.Timeout**
- ☒ c. **React.Suspense**
- ☐ d. **React.Fragment**

## Question 6

Complete

Mark 1.00 out of 1.00

What hook is used to perform side effects in a React function component?

Select one:

- ☒ a. **useEffect**
- ☐ b. **useContext**
- ☐ c. **useMemo**
- ☐ d. **useReducer**

## Question 7

Complete

Mark 1.00 out of 1.00

What is the primary goal of the Context API in React?

Select one:

- ☐ a. **Replace Redux**
- ☐ b. **Manage styles**
- ☐ c. **Manage server-side rendering**
- ☒ d. **Provide global state access without prop drilling**

## Question 8

Complete

Mark 1.00 out of 1.00

What is the correct behavior of React Strict Mode?

Select one:

- ☐ a. **Adds runtime optimizations**
- ☒ b. **Highlights potential problems in an application**
- ☐ c. **Prevents state updates**
- ☐ d. **Enables concurrent rendering**

## Question 9

Complete

Mark 1.00 out of 1.00

Which of the following is NOT a valid way to create an object in JavaScript?

Select one:

- ☐ a. `var obj = new Object();`
- ☐ b. `var obj = {};`
- ☐ c. `var obj = Object();`
- ☒ d. `var obj = create Object();`

## Question 10

Complete

Mark 1.00 out of 1.00

Which of the following is true about arrow functions?

Select one:

- ☐ a. They can be used as constructors
- ☐ b. They have their own “this” binding
- ☐ c. They can use arguments object
- ☒ d. They bind “this” lexically

## Question 11

Complete

Mark 1.00 out of 1.00

Which JavaScript feature allows copying enumerable properties from one or more source objects to a target object?

Select one:

- ☐ a. `Object.copy()`
- ☐ b. `Object.clone()`
- ☐ c. `Object.merge()`
- ☒ d. `Object.assign()`

## Question 12

Complete

Mark 0.00 out of 1.00

Which of the following is true about JavaScript closures?

Select one:

- ☐ a. Closures only work with global variables
- ☒ b. Closures cannot access outer function variables
- ☐ c. Closures can access variables defined after them
- ☐ d. Closures retain access to the scope in which they were created

## Question 13

Complete

Mark 1.00 out of 1.00

Which is NOT a valid lifecycle method in React class components?

Select one:

- ☐ a. **componentDidMount**
- ☐ b. **componentWillReceiveProps**
- ☐ c. **componentDidUpdate**
- ☒ d. **shouldComponentRender**

## Question 14

Complete

Mark 1.00 out of 1.00

What is `memo` in React used for?

Select one:

- ☐ a. **To create global state**
- ☐ b. **To handle events**
- ☐ c. **To initialize props**
- ☒ d. **To prevent unnecessary re-rendering**

## Question 15

Complete

Mark 1.00 out of 1.00

What will the following code output?

```
(function(){  
  var a = b = 5;  
})();  
console.log(b);
```

Select one:

- ☐ a. **NaN**
- ☐ b. **ReferenceError**
- ☒ c. **5**
- ☐ d. **undefined**

## Question 16

Complete

Mark 1.00 out of 1.00

What does `dangerouslySetInnerHTML` in React allow?

Select one:

- ☐ a. **Rendering CSS dynamically**
- ☐ b. **Setting headers**
- ☒ c. **Rendering raw HTML**
- ☐ d. **Compiling JSX**

## Question 17

Complete

Mark 1.00 out of 1.00

Which of these best describes the React reconciliation process?

Select one:

- ☐ a. Compare only changed nodes in DOM
- ☐ b. Sync props to backend
- ☒ c. Compare virtual DOM trees and apply minimal DOM updates
- ☐ d. Redraw the whole page

## Question 18

Complete

Mark 1.00 out of 1.00

What does `useCallback` return in React?

Select one:

- ☐ a. An effect
- ☐ b. A reducer
- ☒ c. A new memoized callback
- ☐ d. A memoized value

## Question 19

Complete

Mark 1.00 out of 1.00

What does `React.lazy()` do?

Select one:

- ☐ a. Suspends component rendering
- ☐ b. Enables server-side rendering
- ☐ c. Creates asynchronous events
- ☒ d. Allows component code splitting

## Question 20

Complete

Mark 1.00 out of 1.00

What happens if you call `setState` inside `render()`?

Select one:

- ☐ a. Syntax error
- ☒ b. Infinite loop
- ☐ c. Nothing
- ☐ d. Component re-renders properly

## Question 21

Complete

Mark 1.00 out of 1.00

Why is it necessary to bind `this` in class components?

Select one:

- ☒ a. To maintain context inside methods
- ☐ b. To access Redux
- ☐ c. To avoid closure
- ☐ d. To prevent memoization

## Question 22

Complete

Mark 1.00 out of 1.00

How does JavaScript handle asynchronous operations?

Select one:

- ☒ a. Through the event loop
- ☐ b. Using semaphores
- ☐ c. Using global queueing
- ☐ d. Through multithreading

## Question 23

Complete

Mark 1.00 out of 1.00

What does React's `key` prop do?

Select one:

- ☐ a. Tracks component render time
- ☒ b. Uniquely identifies each component instance
- ☐ c. Specifies element styling
- ☐ d. Identifies the element to be animated

## Question 24

Complete

Mark 0.00 out of 1.00

In JavaScript, what is the result of `typeof null`?

Select one:

- ☐ a. "boolean"
- ☒ b. "undefined"
- ☐ c. "null"
- ☐ d. "object"

## Question 25

Complete

Mark 1.00 out of 1.00

Which React hook should be used for performance optimization to memoize expensive computations?

Select one:

- ☒ a. `useMemo`
- ☐ b. `useReducer`
- ☐ c. `useCallback`
- ☐ d. `useEffect`

## Question 26

Complete

Mark 1.00 out of 1.00

In React, what does lifting state up mean?

Select one:

- ☒ a. **Sharing state by moving it to the closest common ancestor**
- ☐ b. **Passing state as props from parent to child**
- ☐ c. **Moving state to Redux**
- ☐ d. **Using useState globally**

## Question 27

Complete

Mark 1.00 out of 1.00

What is the default behavior of React's `useEffect` when the dependency array is omitted?

Select one:

- ☐ a. **It does not run at all**
- ☐ b. **It runs only once**
- ☐ c. **It runs only on unmount**
- ☒ d. **It runs on every render**

## Question 28

Complete

Mark 1.00 out of 1.00

Which hook should be used to store a mutable value that does not cause re-render?

Select one:

- ☐ a. **useEffect**
- ☐ b. **useState**
- ☐ c. **useMemo**
- ☒ d. **useRef**

## Question 29

Complete

Mark 1.00 out of 1.00

What is the purpose of useImperativeHandle?

Select one:

- ☒ a. **To customize instance value exposed to parent with ref**
- ☐ b. **To pass props deeply**
- ☐ c. **To prevent rendering**
- ☐ d. **To define a hook globally**

## Question 30

Complete

Mark 1.00 out of  
1.00

What does the `Object.freeze()` method do?

Select one:

- ☐ a. Prevents new properties from being added but allows existing to be changed
- ☒ b. Prevents modification of existing properties and methods
- ☐ c. Makes object immutable and allows inheritance
- ☐ d. Prevents object from being copied