

Started on Wednesday, 21 May 2025, 1:08 PM

State Finished

Completed on Wednesday, 21 May 2025, 1:26 PM

Time taken 17 mins 44 secs

Marks 13.00/30.00

Grade 43.33 out of 100.00

Question

1

Complete

Mark 1.00 out of 1.00

Which of the following is true about arrow functions?

Select one:

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

Question

2

Complete

Mark 1.00 out of 1.00

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

Select one:

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

Question

3

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. `useState`
- ☐ b. `useMemo`
- ☒ c. `useRef`
- ☐ d. `useEffect`

Question

4

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 retain access to the scope in which they were created
- ☐ d. Closures can access variables defined after them

Question

5

Complete

Mark 0.00 out of 1.00

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

Select one:

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

Question

6

Complete

Mark 1.00 out of 1.00

Which of these best describes the React reconciliation process?

Select one:

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

Question

7

Complete

Mark 1.00 out of 1.00

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

Select one:

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

Question

8

Complete

Mark 0.00 out of 1.00

What does React's `key` prop do?

Select one:

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

Question

9

Complete

Mark 0.00 out of 1.00

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

Select one:

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

Question

10

Complete

Mark 1.00 out of 1.00

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

Select one:

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

Question

11

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. undefined
- ☒ c. 5
- ☐ d. ReferenceError

Question 12

Complete

Mark 0.00 out of 1.00

What does `React.lazy()` do?

Select one:

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

Question 13

Complete

Mark 1.00 out of 1.00

In React, what does lifting state up mean?

Select one:

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

Question 14

Complete

Mark 0.00 out of 1.00

How does JavaScript handle asynchronous operations?

Select one:

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

Question 15

Complete

Mark 0.00 out of 1.00

What is the purpose of `useImperativeHandle`?

Select one:

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

Question 16

Complete

Mark 0.00 out of 1.00

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

Select one:

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

Question 17

Complete

Mark 0.00 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 18

Complete

Mark 0.00 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. **Enables concurrent rendering**
- ☐ d. **Prevents state updates**

Question 19

Complete

Mark 0.00 out of 1.00

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

Select one:

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

Question 20

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 = create Object();`
- ☐ d. `var obj = Object();`

Question 21

Complete

Mark 0.00 out of 1.00

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

Select one:

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

Question 22

Complete

Mark 0.00 out of 1.00

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

Select one:

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

Question 23

Complete

Mark 0.00 out of 1.00

What does `dangerouslySetInnerHTML` in React allow?

Select one:

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

Question 24

Complete

Mark 1.00 out of 1.00

Which of the following is NOT a valid JavaScript iterable?

Select one:

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

Question 25

Complete

Mark 1.00 out of 1.00

What does `useCallback` return in React?

Select one:

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

Question 26

Complete

Mark 0.00 out of 1.00

What is `memo` in React used for?

Select one:

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

Question 27

Complete

Mark 0.00 out of 1.00

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

Select one:

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

Question 28

Complete

Mark 1.00 out of
1.00

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

Select one:

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

Question 29

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

Question 30

Complete

Mark 0.00 out of
1.00

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

Select one:

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