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|---------------------|---------------------------------|
| <b>Started on</b>   | Wednesday, 21 May 2025, 1:07 PM |
| <b>State</b>        | Finished                        |
| <b>Completed on</b> | Wednesday, 21 May 2025, 1:23 PM |
| <b>Time taken</b>   | 16 mins 29 secs                 |
| <b>Marks</b>        | 20.00/30.00                     |
| <b>Grade</b>        | <b>66.67</b> out of 100.00      |

## Question

1

Complete

Mark 0.00 out of 1.00

What will the following code output?

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

Select one:

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

## Question 2

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

## Question 3

Complete

Mark 1.00 out of 1.00

Which of the following is NOT a valid JavaScript iterable?

Select one:

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

## Question 4

Complete

Mark 0.00 out of 1.00

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

Select one:

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

## Question 5

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. Redraw the whole page
- ☒ d. Compare virtual DOM trees and apply minimal DOM updates

## Question 6

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 7

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. Setting headers
- ☐ d. Compiling JSX

## Question 8

Complete

Mark 1.00 out of 1.00

What is the purpose of useImperativeHandle?

Select one:

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

## Question 9

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. Enables concurrent rendering
- ☐ d. Prevents state updates

## Question 10

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. useCallback
- ☐ c. useEffect
- ☐ d. useReducer

## Question 11

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

## Question 12

Complete

Mark 1.00 out of  
1.00

What does `useCallback` return in React?

Select one:

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

## Question 13

Complete

Mark 0.00 out of  
1.00

Which of the following is true about arrow functions?

Select one:

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

## Question 14

Complete

Mark 1.00 out of  
1.00

What is `memo` in React used for?

Select one:

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

## Question 15

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 16

Complete

Mark 1.00 out of  
1.00

What does React's `key` prop do?

Select one:

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

## Question 17

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

## Question 18

Complete

Mark 1.00 out of  
1.00

What does `React.lazy()` do?

Select one:

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

## Question 19

Complete

Mark 0.00 out of  
1.00

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

Select one:

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

## Question 20

Complete

Mark 1.00 out of 1.00

Which of the following is true about JavaScript closures?

Select one:

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

## Question 21

Complete

Mark 1.00 out of 1.00

In JavaScript, what is the result of typeof null?

Select one:

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

## Question 22

Complete

Mark 1.00 out of 1.00

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

Select one:

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



## Question 23

Complete

Mark 1.00 out of  
1.00

How does JavaScript handle asynchronous operations?

Select one:

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

## Question 24

Complete

Mark 1.00 out of  
1.00

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

Select one:

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

## Question 25

Complete

Mark 1.00 out of  
1.00

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

Select one:

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

## Question 26

Complete

Mark 0.00 out of  
1.00

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

Select one:

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

## Question 27

Complete

Mark 0.00 out of  
1.00

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

Select one:

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

## Question 28

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

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

## Question 30

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 prevent memoization**
- ☐ d. **To avoid closure**