Started on	Wednesday, 21 May 2025, 1:04 PM
State	Finished
Completed on	Wednesday, 21 May 2025, 1:21 PM
Time taken	17 mins 7 secs
Marks	15.00/30.00
Grade	**50.00** out of 100.00

Question 1

Complete

Mark 0.00 out of 1.00

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

Select one:

- ○ **a. Forces prop types**
- ◉ **b. Prevents prop mutation**
- ○ **c. Declares event listeners**
- ○ **d. Sets fallback values for props**

Question 2

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 3

Complete

Mark 0.00 out of 1.00

What is the correct behavior of React Strict Mode?

Select one:

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

Question 4

Complete

Mark 1.00 out of 1.00

How does JavaScript handle asynchronous operations?

Select one:
- ○ **a. Through multithreading**
- ◉ **b. Through the event loop**
- ○ **c. Using semaphores**
- ○ **d. Using global queueing**

Question 5

Complete

Mark 1.00 out of 1.00

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

Select one:
- ○ **a. Component re-renders properly**
- ○ **b. Nothing**
- ◉ **c. Infinite loop**
- ○ **d. Syntax error**

Question 6

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.Suspense**
- ◉ **c. React.Timeout**
- ○ **d. React.Portal**

Question 7

Complete

Mark 0.00 out of 1.00

In React, what does lifting state up mean?

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

Question 8

Complete

Mark 0.00 out of 1.00

Which of the following is true about JavaScript closures?

Select one:

○ **a. Closures retain access to the scope in which they were created**

◉ **b. Closures can access variables defined after them**

○ **c. Closures cannot access outer function variables**

○ **d. Closures only work with global variables**

Question 9

Complete

Mark 1.00 out of 1.00

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

Select one:

○ **a. componentDidMount**

○ **b. componentDidUpdate**

○ **c. componentWillReceiveProps**

◉ **d. shouldComponentRender**

Question 10

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 once**

○ **c. It does not run at all**

◉ **d. It runs only on unmount**

Question 11

Complete

Mark 0.00 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 12

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 prevent rendering**
- ○ **c. To define a hook globally**
- ○ **d. To pass props deeply**

Question 13

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. ReferenceError**
- ● **c. undefined**
- ○ **d. NaN**

Question 14

Complete

Mark 0.00 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 15

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

Question 16

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 = Object();**

◉ **b. var obj = create Object();**

○ **c. var obj = new Object();**

○ **d. var obj = {};**

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. Global object**

○ **b. The function itself**

○ **c. The event object**

○ **d. Undefined**

Question 18

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. useReducer**

○ **c. useMemo**

○ **d. useContext**

Question 19

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. Provide global state access without prop drilling**

○ **c. Manage server-side rendering**

○ **d. Manage styles**

Question 20

Complete

Mark 1.00 out of 1.00

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

Select one:
- ○ **a. useCallback**
- ○ **b. useReducer**
- ● **c. useMemo**
- ○ **d. useEffect**

Question 21

Complete

Mark 1.00 out of 1.00

What does React's `key` prop do?

Select one:
- ○ **a. Specifies element styling**
- ○ **b. Tracks component render time**
- ○ **c. Identifies the element to be animated**
- ● **d. Uniquely identifies each component instance**

Question 22

Complete

Mark 0.00 out of 1.00

What does `React.lazy()` do?

Select one:
- ● **a. Creates asynchronous events**
- ○ **b. Enables server-side rendering**
- ○ **c. Suspends component rendering**
- ○ **d. Allows component code splitting**

Question 23

Complete

Mark 0.00 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 object from being copied**
- ● **c. Makes object immutable and allows inheritance**
- ○ **d. Prevents modification of existing properties and methods**

Question 24

Complete

Mark 1.00 out of 1.00

What does `useCallback` return in React?

Select one:

- ○ **a. A memoized value**
- ○ **b. A reducer**
- ○ **c. An effect**
- ◉ **d. A new memoized callback**

Question 25

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. useEffect**
- ○ **c. useMemo**
- ◉ **d. useRef**

Question 26

Complete

Mark 1.00 out of 1.00

Which of these best describes the React reconciliation process?

Select one:

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

Question 27

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. Concurrent Mode**
- ◉ **c. Virtual DOM**
- ○ **d. Refs**

Question 28

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 29

Complete

Mark 1.00 out of 1.00

What is `memo` in React used for?

Select one:

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

Question 30

Complete

Mark 0.00 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.assign()**
- ○ **b. Object.copy()**
- ○ **c. Object.merge()**
- ◉ **d. Object.clone()**