Started on	Wednesday, 21 May 2025, 1:05 PM
State	Finished
Completed on	Wednesday, 21 May 2025, 1:20 PM
Time taken	14 mins 46 secs
Marks	21.00/30.00
Grade	**70.00** out of 100.00

Question 1

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 2

Complete

Mark 1.00 out of 1.00

What is the purpose of useImperativeHandle?

Select one:

○ **a. To prevent rendering**

○ **b. To pass props deeply**

○ **c. To define a hook globally**

◉ **d. To customize instance value exposed to parent with ref**

Question 3

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. Sync props to backend**

○ **c. Redraw the whole page**

○ **d. Compare only changed nodes in DOM**

Question 4

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 on every render

○ c. It runs only on unmount

◉ d. It runs only once

Question 5

Complete

Mark 0.00 out of 1.00

What does `React.lazy()` do?

Select one:

○ a. Enables server-side rendering

○ b. Creates asynchronous events

○ c. Allows component code splitting

◉ d. Suspends component rendering

Question 6

Complete

Mark 1.00 out of 1.00

In JavaScript, what is the result of typeof null?

Select one:

◉ a. "object"

○ b. "boolean"

○ c. "null"

○ d. "undefined"

Question 7

Complete

Mark 1.00 out of 1.00

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

Select one:

○ a. Concurrent Mode

○ b. Refs

◉ c. Fiber architecture

○ d. Virtual DOM

Question 8

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. useReducer**
- ○ **d. useEffect**

Question 9

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 create global state**
- ○ **d. To handle events**

Question 10

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

Question 11

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**

Question 12

Complete

Mark 1.00 out of 1.00

Which of the following is true about arrow functions?

Select one:

- ○ **a. They can use arguments object**
- ○ **b. They have their own "this" binding**
- ○ **c. They can be used as constructors**
- ● **d. They bind "this" lexically**

Question 13

Complete

Mark 1.00 out of 1.00

In React, what does lifting state up mean?

Select one:

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

Question 14

Complete

Mark 1.00 out of 1.00

What does `useCallback` return in React?

Select one:

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

Question 15

Complete

Mark 0.00 out of 1.00

What is the correct behavior of React Strict Mode?

Select one:

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

Question 16

Complete

Mark 1.00 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 17

Complete

Mark 0.00 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 = create Object();**
- ○ **c. var obj = new Object();**
- ● **d. var obj = Object();**

Question 18

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 19

Complete

Mark 1.00 out of 1.00

Which of the following is true about JavaScript closures?

Select one:

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

Question 20

Complete

Mark 1.00 out of 1.00

What does React's `key` prop do?

Select one:

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

Question 21

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 22

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. Declares event listeners
- ○ c. Prevents prop mutation
- ○ d. Forces prop types

Question 23

Complete

Mark 1.00 out of 1.00

How does JavaScript handle asynchronous operations?

Select one:

- ○ a. Using semaphores
- ○ b. Using global queueing
- ○ c. Through multithreading
- ● d. Through the event loop

Question 24

Complete

Mark 1.00 out of 1.00

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

Select one:

- ○ **a. componentDidUpdate**
- ◉ **b. shouldComponentRender**
- ○ **c. componentDidMount**
- ○ **d. componentWillReceiveProps**

Question 25

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

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

Question 27

Complete

Mark 0.00 out of 1.00

Which of the following is NOT a valid JavaScript iterable?

Select one:

- ◉ **a. Set**
- ○ **b. Object**
- ○ **c. String**
- ○ **d. Array**

Question 28

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.copy()
- ● c. Object.assign()
- ○ d. Object.merge()

Question 29

Complete

Mark 1.00 out of 1.00

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

Select one:

- ○ a. useContext
- ● b. useEffect
- ○ c. useMemo
- ○ d. useReducer

Question 30

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. 5
- ○ c. undefined
- ○ d. ReferenceError