

<b>Started on</b>	Monday, 16 June 2025, 4:12 PM
<b>State</b>	Finished
<b>Completed on</b>	Monday, 16 June 2025, 4:23 PM
<b>Time taken</b>	11 mins 2 secs
<b>Marks</b>	25.00/30.00
<b>Grade</b>	<b>83.33</b> out of 100.00

**Question 1**

Complete

Mark 1.00 out of 1.00

What does useCallback hook return?

- ☐ a. A memoized value
- ☐ b. A reference to the DOM element
- ☒ c. A memoized callback function
- ☐ d. A mutable object

**Question 2**

Complete

Mark 1.00 out of 1.00

Why should you avoid using indexes as keys in lists?

- ☐ a. It slows down rendering
- ☒ b. It breaks component identity on reordering
- ☐ c. It's not supported in React
- ☐ d. It leads to memory leaks

**Question 3**

Complete

Mark 1.00 out of 1.00

Which CSS method ensures responsiveness in font sizes?

- ☐ a. font-size: bold
- ☐ b. font-size: em
- ☐ c. font-size: 14px
- ☒ d. font-size: rem

**Question 4**

Complete

Mark 0.00 out of 1.00

What happens if useEffect returns a function?

- ☐ a. React ignores it
- ☐ b. That function is a cleanup function called on unmount
- ☐ c. That function is used as the component's constructor
- ☒ d. That function is executed immediately

**Question 5**

Complete

Mark 1.00 out of 1.00

What is Server-Side Rendering (SSR) in React?

- ☐ a. Rendering on mobile
- ☐ b. Rendering in CDN
- ☒ c. Rendering HTML on the server before sending to browser
- ☐ d. Rendering JSX instead of HTML

**Question 6**

Complete

Mark 1.00 out of 1.00

What does React.lazy() do?

- ☐ a. Loads large DOM elements lazily
- ☒ b. Enables lazy loading of components
- ☐ c. Lazily loads non-JS files
- ☐ d. Creates lazy hooks

**Question 7**

Complete

Mark 1.00 out of 1.00

What is the purpose of React.memo?

- ☐ a. To deep clone a component
- ☐ b. To trigger a useEffect hook
- ☐ c. To convert class components to functional components
- ☒ d. To memoize functional components to avoid unnecessary re-renders

**Question 8**

Complete

Mark 1.00 out of 1.00

What happens when you update a state variable using `setState` in a functional component?

- ☐ a. It modifies state directly
- ☐ b. It throws a compile-time error
- ☒ c. It re-renders the component
- ☐ d. It prevents re-rendering

**Question 9**

Complete

Mark 1.00 out of 1.00

How can you prevent a flex item from growing?

- ☐ a. `display: none;`
- ☐ b. `flex-wrap: none;`
- ☐ c. `flex: grow;`
- ☒ d. `flex-grow: 0;`

**Question 10**

Complete

Mark 1.00 out of 1.00

Which hook is used to manage lifecycle behavior in functional components?

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

**Question 11**

Complete

Mark 1.00 out of 1.00

What is the difference between relative and absolute positioning?

- ☒ a. Relative positions to parent; absolute positions to nearest positioned ancestor
- ☐ b. Relative moves with page scroll
- ☐ c. Absolute is always fixed
- ☐ d. Absolute is responsive

**Question 12**

Complete

Mark 0.00 out of 1.00

Which of the following selectors has the highest specificity?

- ☐ a. `div.card`
- ☒ b. `*`
- ☐ c. `#card`
- ☐ d. `.card`

**Question 13**

Complete

Mark 1.00 out of 1.00

Which of the following is true about `useEffect` dependencies?

- ☐ a. Omitting dependencies disables the hook
- ☐ b. All effects run after every keypress
- ☒ c. An empty array runs effect only once
- ☐ d. An empty array means effect runs every render

**Question 14**

Complete

Mark 1.00 out of 1.00

Why would you use `useMemo`?

- ☒ a. To memoize expensive calculations
- ☐ b. To replace context
- ☐ c. To create hooks
- ☐ d. To trigger animations

**Question 15**

Complete

Mark 1.00 out of 1.00

What is `PropTypes` used for?

- ☐ a. Passing default values
- ☐ b. Writing CSS in JS
- ☒ c. Type checking component props
- ☐ d. Defining state

**Question 16**

Complete

Mark 1.00 out of 1.00

What does `calc(100% - 80px)` do?

- ☐ a. Multiplies values
- ☐ b. Adds 80 pixels
- ☐ c. Breaks CSS
- ☒ d. Calculates width at runtime

**Question 17**

Complete

Mark 0.00 out of 1.00

What is the output of this code?

```
const [count, setCount] = useState(0);  
setCount(count + 1);
```

- ☒ a. Infinite re-render
- ☐ b. Throws error for infinite loop
- ☐ c. Sets count to 1
- ☐ d. Nothing happens

**Question 18**

Complete

Mark 0.00 out of 1.00

What does `key` prop do in React?

- ☐ a. It assigns event handlers
- ☒ b. It uniquely identifies elements in a list
- ☐ c. It helps in performance optimization
- ☐ d. Both B and C

**Question 19**

Complete

Mark 1.00 out of 1.00

How can you make a flex container's children wrap?

- ☐ a. `wrap: flex;`
- ☒ b. `flex-wrap: wrap;`
- ☐ c. `flex-wrap: no-wrap;`
- ☐ d. `display: wrap;`

**Question 20**

Complete

Mark 1.00 out of 1.00

What CSS property is used for grid layout?

- ☐ a. display: table
- ☐ b. float: grid
- ☐ c. grid-type
- ☒ d. display: grid

**Question 21**

Complete

Mark 1.00 out of 1.00

Which hook should be used for handling complex state transitions?

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

**Question 22**

Complete

Mark 1.00 out of 1.00

When is useLayoutEffect used instead of useEffect?

- ☐ a. For debugging
- ☒ b. For DOM mutations before paint
- ☐ c. For performance tuning
- ☐ d. For logging

**Question 23**

Complete

Mark 1.00 out of 1.00

Which statement is correct about useRef?

- ☐ a. It replaces useEffect
- ☒ b. It creates persistent mutable ref
- ☐ c. It triggers re-render on change
- ☐ d. It handles errors

**Question 24**

Complete

Mark 1.00 out of 1.00

How do you handle global state in React?

- ☒ a. Context API
- ☐ b. useEffect
- ☐ c. React.memo
- ☐ d. Prop drilling

**Question 25**

Complete

Mark 1.00 out of 1.00

What does the z-index property do?

- ☐ a. Sets transparency
- ☒ b. Determines stacking order
- ☐ c. Adjusts font
- ☐ d. Sets margin between elements

**Question 26**

Complete

Mark 1.00 out of 1.00

What's the correct way to forward refs?

- ☒ a. Using React.forwardRef
- ☐ b. Using useEffect
- ☐ c. Using useRef
- ☐ d. Using bind()

**Question 27**

Complete

Mark 1.00 out of 1.00

In a controlled component, form input value is managed by:

- ☐ a. useRef
- ☐ b. Component lifecycle
- ☒ c. State
- ☐ d. DOM

**Question 28**

Complete

Mark 1.00 out of 1.00

What does em refer to in font sizing?

- ☐ a. Height of the viewport
- ☐ b. Absolute pixels
- ☒ c. Relative to parent element's font-size
- ☐ d. Width of the screen

**Question 29**

Complete

Mark 1.00 out of 1.00

What is JSX?

- ☐ a. A strict JavaScript parser
- ☐ b. A separate React templating engine
- ☒ c. A syntax extension for JavaScript
- ☐ d. An XML parser

**Question 30**

Complete

Mark 0.00 out of 1.00

What is ::before in CSS?

- ☐ a. Inserts content after the element
- ☒ b. Adds pseudo-class
- ☐ c. Inserts content before the element
- ☐ d. Replaces parent element