

<b>Started on</b>	Monday, 16 June 2025, 4:10 PM
<b>State</b>	Finished
<b>Completed on</b>	Monday, 16 June 2025, 4:24 PM
<b>Time taken</b>	14 mins 9 secs
<b>Marks</b>	26.00/30.00
<b>Grade</b>	<b>86.67</b> out of 100.00

**Question 1**

Complete

Mark 1.00 out of 1.00

What is the difference between relative and absolute positioning?

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

**Question 2**

Complete

Mark 1.00 out of 1.00

How can you prevent a flex item from growing?

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

**Question 3**

Complete

Mark 0.00 out of 1.00

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

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

**Question 4**

Complete

Mark 1.00 out of 1.00

How do you handle global state in React?

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

**Question 5**

Complete

Mark 1.00 out of 1.00

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

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

**Question 6**

Complete

Mark 1.00 out of 1.00

What does em refer to in font sizing?

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

**Question 7**

Complete

Mark 1.00 out of 1.00

What does the z-index property do?

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

**Question 8**

Complete

Mark 1.00 out of 1.00

What does React.lazy() do?

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

**Question 9**

Complete

Mark 1.00 out of 1.00

Why would you use useMemo?

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

**Question 10**

Complete

Mark 1.00 out of 1.00

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

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

**Question 11**

Complete

Mark 1.00 out of 1.00

What does useCallback hook return?

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

**Question 12**

Complete

Mark 1.00 out of 1.00

What is JSX?

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

**Question 13**

Complete

Mark 0.00 out of 1.00

What is the output of this code?

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

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

**Question 14**

Complete

Mark 1.00 out of 1.00

Which of the following selectors has the highest specificity?

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

**Question 15**

Complete

Mark 0.00 out of 1.00

When is `useLayoutEffect` used instead of `useEffect`?

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

**Question 16**

Complete

Mark 1.00 out of 1.00

Why should you avoid using indexes as keys in lists?

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

**Question 17**

Complete

Mark 1.00 out of 1.00

Which CSS method ensures responsiveness in font sizes?

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

**Question 18**

Complete

Mark 1.00 out of 1.00

What happens if useEffect returns a function?

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

**Question 19**

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 handles errors
- ☐ d. It triggers re-render on change

**Question 20**

Complete

Mark 1.00 out of 1.00

What is the purpose of React.memo?

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

**Question 21**

Complete

Mark 0.00 out of 1.00

Which of the following is true about useEffect dependencies?

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

**Question 22**

Complete

Mark 1.00 out of 1.00

What's the correct way to forward refs?

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

**Question 23**

Complete

Mark 1.00 out of 1.00

What CSS property is used for grid layout?

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

**Question 24**

Complete

Mark 1.00 out of 1.00

What is ::before in CSS?

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

**Question 25**

Complete

Mark 1.00 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 26**

Complete

Mark 1.00 out of 1.00

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

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

**Question 27**

Complete

Mark 1.00 out of 1.00

Which hook should be used for handling complex state transitions?

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

**Question 28**

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 29**

Complete

Mark 1.00 out of 1.00

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

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

**Question 30**

Complete

Mark 1.00 out of 1.00

What is PropTypes used for?

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