Comprehensive React MCQ Test

Last updated by | Subramanya Dixit | May 5, 2025 at 7:59 PM GMT+5:30

React Basics & JSX

- 1. What is JSX?
- a) A CSS preprocessor
- **☑** b) A syntax extension for JavaScript used with React
- c) A templating language like Handlebars
- d) A JavaScript compiler
- 2. What is the purpose of ReactDOM.render()?
- a) To define a component
- b) To create a virtual DOM
- c) To render React elements into the DOM
- d) To connect state to props
- 3. What is the root element in a typical React app?
- a) <App />
- **b)** <div id="root">
- c) <body>
- d) <main>

ES6+ JavaScript

- 4. What is the output of const [a, b] = [1, 2];?
- \triangle a) a = 1, b = 2
- b) a = 2, b = 1
- c) Syntax error
- d) a = undefined, b = undefined
- 5. What is the spread operator used for?
- a) To expand iterable elements
- b) To bind methods
- c) To compile JSX
- d) To create promises

* Functional Components & Props

- 6. What are props in React?
- a) Component state
- b) Data passed to components
- c) JavaScript variables
- d) Hooks
- 7. How do you pass props to a component?
- a) By using attributes
- b) Through context only
- c) With useEffect
- d) Automatically via state
- State and Lifecycle (Hooks)
- 8. What does useState return?
- a) A reducer
- b) A prop
- c) An array with state and updater function
- d) An object
- 9. Which hook replaces componentDidMount()?
- a) useState
- **b**) useEffect
- c) useMemo
- d) useContext
- useEffect & Side Effects
- 10. What is a side effect in React?
- a) Code that interacts with outside systems
- b) Code that updates state
- c) Pure function

d) Inline styling

11. When does useEffect run by default?

- a) After every render
- b) Only on mount
- c) Before render
- d) Once per session

Event Handling

- 12. How do you handle an event in React?
- a) Use camelCase and pass a function
- b) Use lowercase events
- c) Use HTML event handlers
- d) Use string-based listeners

Conditional Rendering

- 13. Which operator is commonly used for conditional rendering?
- a) &&
- b) ||
- **c)** Ternary condition ? true : false
- d) ??

lists and Keys

- 14. Why are keys important in React lists?
- a) For security
- **b**) To uniquely identify elements and optimize rendering
- c) For CSS
- d) To loop arrays
- Forms
- 15. How do you update input state in a controlled component?
- a) With onChange handler

- b) With useEffect
- c) With getElementById
- d) Automatically

useContext & Global State

- 16. What does useContext return?
- a) State array
- **b)** Current context value
- c) A reducer
- d) JSX

Advanced Hooks

- 17. What is useReducer used for?
- a) Replacing useState in functional components
- **b)** Managing complex state logic
- c) Handling routing
- d) Styling components
- 18. What are custom hooks?
- a) Hooks built by React
- **☑** b) User-defined reusable logic using hooks
- c) Hooks for Redux
- d) CSS styling hooks

§ Routing (React Router)

- 19. Which component is used to define routes in React Router v6?
- a) < RoutePath >
- ☑ b) <Route>
- c) < RouterRoute >
- d) <Path>
- 20. What hook allows access to the current route's parameters?

- a) usePath
- b) useParams
- c) useMatch
- d) useLocation

Performance Optimization

- 21. What is the purpose of React.memo?
- a) Memoize props
- **b)** Prevent unnecessary re-renders
- c) Fetch data faster
- d) Replace useMemo
- 22. What does useMemo return?
- a) A component
- b) A reducer
- c) A memoized value
- d) A callback

Testing

- 23. What does Jest do?
- a) JavaScript testing framework
- b) Styles components
- c) Manages state
- d) Optimizes code
- 24. What does a test id help with?
- a) Rendering faster
- **b)** Targeting elements in tests
- c) Deploying apps
- d) Formatting JSX

K Error Boundaries

25. Can hooks be used in Error Boundaries?

- a) Yes
- **b**) No, only class components
- c) Only in Next.js
- d) Only with useEffect
- Internationalization
- 26. What does i18n stand for?
- a) Import to NPM
- b) Internationalization
- c) Initial HTML version
- d) Integration 18
- 27. Which hook is used with react-i18next?
- a) useLang
- b) useIntl
- c) useTranslation
- d) usel18n
- Server-Side Rendering
- 28. What function is used to render React on the server?
- a) render()
- b) hydrate()
- c) renderToString()
- d) toHTML()
- 29. Why is SSR beneficial for SEO?
- a) HTML is dynamic
- ☑ b) Content is indexed before JS loads
- c) It uses GraphQL
- d) CSS loads first

Miscellaneous

- 30. What is hydration in SSR?
- a) Making server-rendered HTML interactive
- b) Preloading data
- c) Injecting CSS
- d) Creating virtual DOM