

# React MCQ

Topics : [React JS](#)

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## React Basics:

### 1. What is React?

- A. A programming language
- B. A JavaScript library for building user interfaces
- C. A CSS preprocessor
- D. A server-side scripting language

**Answer: B. A JavaScript library for building user interfaces**

### 2. What does JSX stand for?

- A. JavaScript XML
- B. JavaScript Extension
- C. JSX doesn't stand for anything
- D. Java XML Syntax

**Answer: A. JavaScript XML**

### 3. Which method is used to render a React element into a DOM element?

- A. renderDOM
- B. mount
- C. renderElement
- D. ReactDOM.render

**Answer: D. ReactDOM.render**

### 4. In React, what is the purpose of setState?

- A. To set the initial state of a component
- B. To update the state of a component
- C. To get the current state of a component
- D. To remove a component from the state

**Answer: B. To update the state of a component**

**5. What is the Virtual DOM used for in React?**

- A. To create a virtual representation of the browser
- B. To store component styles
- C. To improve performance by updating the actual DOM more efficiently
- D. To handle asynchronous events

**Answer: C. To improve performance by updating the actual DOM more efficiently**

**Component Lifecycle:**

**6. Which lifecycle method is called after a component renders for the first time?**

- A. `componentWillMount`
- B. `componentDidMount`
- C. `componentWillUpdate`
- D. `componentDidUpdate`

**Answer: B. `componentDidMount`**

**7. In class components, which method is used to update the state based on props changes?**

- A. `componentDidMount`
- B. `componentDidUpdate`
- C. `componentWillReceiveProps`
- D. `componentWillUpdate`

**Answer: C. `componentWillReceiveProps`**

**Hooks:**

**8. Which hook is used for side effects in functional components?**

- A. `useEffect`
- B. `useSideEffect`
- C. `useAsyncEffect`
- D. `useLifecycle`

**Answer: A. `useEffect`**

**9. What is the purpose of the `useState` hook?**

- A. To define state in class components
- B. To fetch data from an API
- C. To manage state in functional components
- D. To create a global state

**Answer: C. To manage state in functional components**

## **Props and State:**

**10. What is the key difference between state and props in React?**

- A. State is used for internal component data, while props are used for communication between components.
- B. State is immutable, while props are mutable.
- C. State is passed down from parent components, while props are defined within a component.
- D. State is used only in class components, while props are used in functional components.

**Answer: A. State is used for internal component data, while props are used for communication between components.**

**11. In React, how can you pass data from a parent component to a child component?**

- A. Using the `setState` method
- B. Using the `props` attribute
- C. Using the `state` attribute
- D. Using the `render` method

**Answer: B. Using the props attribute**

## **React Router:**

**12. What is React Router used for?**

- A. State management in React applications
- B. Handling routing and navigation in React applications
- C. Managing API requests
- D. Styling React components

**Answer: B. Handling routing and navigation in React applications**

**13. Which component is used to define a route in React Router?**

- A. Router
- B. Switch
- C. Route
- D. Link

**Answer: C. Route**

## **Redux:**

**14. What is Redux used for in a React application?**

- A. Styling React components
- B. Managing global state
- C. Handling routing and navigation
- D. Fetching data from an API

**Answer: B. Managing global state**

**15. What is an action in Redux?**

- A. A plain JavaScript object describing a change in state
- B. A function that calculates the next state
- C. A middleware for handling side effects
- D. A component in a Redux application

**Answer: A. A plain JavaScript object describing a change in state**

## **Higher-Order Components (HOC):**

**16. What is a Higher-Order Component (HOC) in React?**

- A. A component with a higher number of children
- B. A function that takes a component and returns a new component with enhanced features
- C. A component with a higher level of state
- D. A component that renders other components

**Answer: B. A function that takes a component and returns a new component with enhanced features**

## **React Context:**

**17. What is React Context used for?**

- A. Managing global state
- B. Styling React components
- C. Handling routing and navigation
- D. Creating higher-order components

**Answer: A. Managing global state**

**18. How can you consume a React Context in a functional component?**

- A. Using the `this.context` property

- B. Using the useContext hook
- C. Using the Consumer component
- D. Using the connect function

**Answer: B. Using the useContext hook**

## **Portals:**

**19. What is a React Portal used for?**

- A. Handling API requests
- B. Rendering components outside the normal component hierarchy
- C. Managing global state
- D. Animating React components

**Answer: B. Rendering components outside the normal component hierarchy**

## **Testing:**

**20. Which testing library is commonly used for testing React components?**

- A. Jest
- B. Mocha
- C. Jasmine
- D. Enzyme

**Answer: A. Jest**