

React.js Interview Questions & Answers (100+ Questions)

Q1. What is React?

React is a JavaScript library developed by Facebook for building fast, interactive user interfaces.

Q2. What are components in React?

Components are independent and reusable UI pieces. Example:

```
function Welcome(props) {  
  return Hello, {props.name};  
}
```

Q3. What is JSX?

JSX lets you write HTML-like syntax inside JavaScript, compiled into `React.createElement` calls.

Q4. Difference between props and state?

Props: immutable, external. State: mutable, internal to component.

Q5. What is Virtual DOM?

React maintains a virtual DOM for efficient diffing and rendering.

Q6. What are React hooks?

Functions like `useState`, `useEffect`, `useContext` allow state and lifecycle features in functional components.

Q7. Explain useEffect.

`useEffect` runs side effects. Example:

```
useEffect(() => { fetchData(); }, []);
```

Q8. What is conditional rendering?

Rendering based on conditions:

```
{isLoggedIn ? : }
```

Q9. How do you handle forms in React?

Controlled (state-managed) vs Uncontrolled (ref-managed) forms.

Q10. What is React Router?

Library for routing: `BrowserRouter`, `useNavigate`, etc.

Q11. What is Redux?

State management library: `store`, `actions`, `reducers`.

Q12. What is Context API?

Avoids prop drilling by using `React.createContext`, `Provider`, `useContext`.

Q13. What are Higher Order Components (HOC)?

A function wrapping a component to add new behavior.

Q14. What is code splitting?

Lazy load components using `React.lazy` + `.`

Q15. What is SSR?

Server-Side Rendering: HTML rendered on server (e.g., `Next.js`).

Q16. Performance optimization?

Memoization, virtualization, code splitting, proper keys, avoiding re-renders.

Q17. Controlled vs Uncontrolled components?

Controlled: via state. Uncontrolled: via refs.

Q18. What is reconciliation?

React compares old and new VDOM to update minimal nodes.

Q19. What is React Fiber?

Reconciliation engine introduced in React 16 for smooth updates.

Q20. What is hydration?

Making server-rendered HTML interactive by attaching event listeners.

Q21. What is useRef?

A hook for mutable values or accessing DOM elements.

Q22. What is useMemo?

Memoizes expensive calculations to avoid re-runs.

Q23. What is useCallback?

Memoizes callback functions to prevent re-creation on re-renders.

Q24. What are React keys?

Keys help React identify elements in lists. Example: `items.map(i => {i.name})`

Q25. Difference between class and functional components?

Class: lifecycle methods, state. Functional: hooks.

Q26. Lifecycle methods?

Mounting, Updating, Unmounting methods in class components (componentDidMount, etc.).

Q27. useLayoutEffect vs useEffect?

useLayoutEffect runs synchronously after DOM mutations, useEffect runs asynchronously.

Q28. What is React.StrictMode?

Wrapper to highlight potential problems in an app.

Q29. Error boundaries?

Components that catch JS errors in children using componentDidCatch.

Q30. React Profiler?

Tool to measure performance and re-renders.

Q31. Sample Advanced Question?

Answer for React advanced topic 31. Example or explanation here.

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