



React Native Interview Q&As

Section 1: Basics & Framework Overview (Q1–Q5)


Q1. What is React Native?

Answer:

-  Open-source **framework by Meta** for mobile apps.
 - Uses **JavaScript + React** and compiles to native code.
 - Runs on **iOS & Android** from a single codebase.
-  **Tip:** Emphasize **cross-platform reusability** and faster development.


Q2. Difference between React and React Native?

Answer:

- **React** → Web UIs with HTML + CSS.
 - **React Native** → Mobile UIs with **native components**.
 - React runs in browsers; React Native uses a **JS bridge**.
-  **Tip:** Mention **shared logic + platform-specific UI**.


Q3. What are core components in React Native?

Answer:

- **View, Text, Image, ScrollView, FlatList, TextInput, Button.**
 - **TouchableOpacity** → For taps & clicks.
-  **Tip:** Familiarity with these is key for **UI development**.

Q4. What is JSX?

Answer:

- JavaScript XML syntax extension.
 - Write **HTML-like code** in JS.
 - Maps directly to **native components** in RN.
-  **Tip:** Essential for building **reusable components**.

Q5. What is Flexbox in React Native?

Answer:

- Layout system for **responsive UI**.
 - Key props: **flexDirection**, **justifyContent**, **alignItems**.
 - Works across **all screen sizes**.
- 💡 **Tip:** Master Flexbox for **consistent mobile layouts**.

Section 2: UI Components & Layout (Q6–Q12)

Q6. Difference between ScrollView and FlatList?

Answer:

- **ScrollView** → Renders all items at once (small lists).
 - **FlatList** → Lazy-loads items (better for large lists).
 - Prevents **performance issues** on long lists.
- 💡 **Pro Tip:** Always prefer FlatList for **large datasets**.

Q7. What is KeyboardAvoidingView?

Answer:

- Adjusts UI when **keyboard appears**.
 - Prevents **overlap with input fields**.
 - Enhances **form usability**.
- 💡 **Tip:** Always wrap **input-heavy screens**.

Q8. What is SafeAreaView?

Answer:

- Ensures content stays within **safe areas**.
 - Avoids notches and interactive areas.
 - Improves **UI consistency** on modern devices.
- 💡 **Tip:** Use for **root-level screens**.

Q9. What is TouchableOpacity?

Answer:

- Makes **views clickable**.
 - Reduces **opacity** on press.
 - Used for **buttons or touchable items**.
- 💡 **Tip:** Combine with **accessibility labels**.

Q10. What is the Platform module?

Answer:

- Detects **OS type** (iOS/Android).
 - Enables **platform-specific code**.
 - Useful for **conditional rendering/styling**.
- 💡 **Tip:** Always test **both platforms**.

Q11. Dimensions API?

Answer:

- Provides **screen width & height**.
 - Enables **responsive layouts**.
 - Useful for **dynamic styling**.
- 💡 **Tip:** Combine with Flexbox for **adaptive designs**.

Q12. PixelRatio API?

Answer:

- Returns **device pixel density**.
 - Helps **scale images & UI elements**.
 - Ensures **consistent look** across devices.
- 💡 **Tip:** Use for **high-resolution graphics**.

Section 3: State & Props Management (Q13–Q19)

Q13. What are props?

Answer:

- Short for **properties**.
- Passed **from parent → child** component.

- **Immutable**, used for **configurations & dynamic content**.

💡 **Tip:** Use props to **customize reusable components**.

Q14. What are state and setState?

Answer:

- **State** → Local data of a component.
- **setState/useState** → Updates state & triggers render.
- Stores **dynamic UI data**.

💡 **Tip:** Manage **form inputs, counters, or toggles** with state.

Q15. What is Redux?

Answer:

- Predictable **state container**.
- Centralizes **app state** across components.
- Works seamlessly with **React & RN**.

💡 **Tip:** Ideal for **complex state management** in large apps.

Q16. useEffect hook?

Answer:

- Handles **side effects** in functional components.
- Replaces componentDidMount & componentDidUpdate.
- Commonly used for **API calls or subscriptions**.

💡 **Tip:** Always set **dependency arrays** to control execution.

Q17. useRef hook?

Answer:

- Stores **mutable values** across renders.
- Access **DOM or child component refs**.
- Does **not trigger re-renders**.

💡 **Tip:** Use for **animations or focus management**.

Q18. useCallback hook?

Answer:

- Memoizes **functions** to prevent recreation.

- Optimizes **performance in child components**.
 - Useful for **handlers & callbacks**.
- 💡 **Tip:** Use with **expensive re-rendering components**.

Q19. useMemo hook?

Answer:

- Memoizes **calculated values**.
 - Recomputes only when **dependencies change**.
 - Optimizes **expensive computations**.
- 💡 **Tip:** Prevent unnecessary **re-render calculations**.

Section 4: APIs & Device Features (Q20–Q30)

Q20. PureComponent & memo?

Answer:

- **PureComponent** → Optimizes class components.
 - **memo** → Optimizes functional components.
 - Prevents **unnecessary re-renders**.
- 💡 **Tip:** Use in **performance-critical screens**.

Q21. Linking API?

Answer:

- Opens **external apps or URLs**.
 - Supports **deep linking**.
 - Enables **cross-app navigation**.
- 💡 **Tip:** Use for **email, phone, or social app links**.

Q22. Alert API?

Answer:

- Displays **native alerts**.
 - Supports **buttons & callbacks**.
 - For **notifications & confirmations**.
- 💡 **Tip:** Keep messages **short & actionable**.

Q23. Share API?

Answer:

- Shares content with **other apps**.
 - Supports **text, URLs, images**.
 - Opens **native share dialog**.
- 💡 **Tip:** Use for **social sharing features**.

Q24. PushNotificationIOS?

Answer:

- Handles **push notifications on iOS**.
 - Schedule or display notifications in real-time.
 - Requires **native setup**.
- 💡 **Tip:** Integrate with **APNs or third-party services**.

Q25. PermissionsAndroid?

Answer:

- Requests **runtime permissions** on Android.
 - Needed for **camera, location, storage** access.
 - Enhances **app security & UX**.
- 💡 **Tip:** Always handle **denied permissions gracefully**.

Q26. AsyncStorage?

Answer:

- Key-value storage for **lightweight data**.
 - Stores **tokens, preferences, flags**.
 - Use `@react-native-async-storage/async-storage`.
- 💡 **Tip:** Avoid for large datasets.

Q27. JS Bridge?

Answer:

- Connects **JS code to native APIs**.
 - Converts calls **both ways**.
 - Enables access to **device features**.
- 💡 **Tip:** Minimize bridge calls for **better performance**.

Q28. Hot Reloading?

Answer:

- Reflects code changes **instantly** without rebuild.
- Preserves **component state**.
- Speeds up **development workflow**.

💡 **Tip:** Use for **rapid prototyping**.

Q29. Metro Bundler?

Answer:

- Bundles & serves **JS code**.
- Supports **live reloading**.
- Optimized for **mobile performance**.

💡 **Tip:** Know config for **custom builds**.

Q30. Expo?

Answer:

- Platform + tools for **easy RN development**.
- Provides **prebuilt libraries & deployment tools**.
- Speeds up **prototyping & testing**.

💡 **Tip:** Great for **MVPs**, but may limit native modules.