1. What is React Native?

Answer: React Native is an open-source framework developed by Facebook that allows developers to build mobile applications using React and JavaScript. It enables the creation of cross-platform apps that can run on both iOS and Android platforms with a single codebase.

2. Explain the difference between React and React Native.

Answer: React is a JavaScript library for building user interfaces on the web, while React Native is a framework for building mobile applications using React. React is focused on web development, whereas React Native is designed for mobile app development.

3. How does React Native work?

Answer: React Native uses native components instead of web components to build mobile UIs. It runs JavaScript code in a background thread, communicating with native modules via a bridge. This allows for the development of cross-platform applications that leverage native performance.

4. What are the advantages of using React Native?

Answer:

Cross-platform development.

Code reusability between iOS and Android.

Hot-reloading for faster development.

Access to native device features through native modules.

5. Explain JSX in React Native.

Answer: JSX (JavaScript XML) is a syntax extension for JavaScript used with React Native. It allows you to write HTML-like code in your JavaScript files, making the code more readable and concise. JSX is later transpiled to standard JavaScript.

6. What is the purpose of state in React Native?

Answer: State is used for storing and managing component-specific data in React Native. When the state of a component changes, it triggers a re-render, updating the user interface to reflect the new state.

7. What is the significance of Redux in React Native?

Answer: Redux is a state management library that helps manage the state of an application in a predictable way. In React Native, Redux is often used to manage the state of the entire application, making it easier to maintain and debug complex state logic.

8. Explain the concept of Props in React Native.

Answer: Props (short for properties) are used to pass data from a parent component to a child component in React Native. They allow the flow of data between components, enabling dynamic and flexible rendering of UI components.

9. What is the role of AsyncStorage in React Native?

Answer: AsyncStorage is a simple, asynchronous, persistent, key-value storage system in React Native. It is commonly used to store and retrieve data, such as user preferences or application settings, on the user's device.

10. How can you optimize performance in React Native?

Answer:

Use the VirtualizedList for efficient rendering of large lists.

Optimize images and assets.

Minimize the use of the "setState" method.

Use PureComponent and memoization techniques.

Implement shouldComponentUpdate to prevent unnecessary re-renders.

These questions cover a range of topics related to React Native and can provide a good foundation for interview preparation. Keep in mind that interview questions may vary depending on the specific job requirements and the interviewer's preferences.