# PT-5 Web Technology

1. What’s the purpose of the spread operator (...) in JavaScript?

○ To concatenate strings  
○ To create a copy of an array or object  
○ To combine two functions  
○ To define a new scope

2. What is the purpose of the "key" attribute in React when rendering a list of components?

○ It specifies the background color  
○ It provides a unique identifier for each component  
○ It defines the font size  
○ It sets the width of the components

3. In React, where should API calls and data fetching be done?

○ In the constructor  
○ In the render method  
○ In the componentDidMount lifecycle method  
○ In the state

4. Which command is used to start a Node.js server using the Express framework?

○ node server.js  
○ start-express  
○ express-server  
○ npm start

5. What’s the purpose of the "children" prop in React components?

○ It contains the parent component’s data  
○ It renders child components  
○ It allows passing elements directly into components  
○ It’s used for styling

6. What’s the benefit of using arrow functions in JavaScript?

○ They have shorter syntax  
○ They allow better type checking  
○ They are automatically asynchronous  
○ They improve performance

7. Which command is used to create a new package.json file?

○ npm init  
○ npm new  
○ npm create  
○ npm package

8. In React, what is the purpose of the "state" object in a component?

○ To store static data  
○ To manage component configuration  
○ To store mutable data that affects rendering  
○ To handle API requests

9. Which HTTP status code represents a successful response?

○ 200  
○ 404  
○ 500  
○ 300

10. What does JSX transpile to in React?

○ HTML  
○ XML  
○ JavaScript  
○ JSON

11. Which method in React is used for conditional rendering?

○ shouldComponentUpdate  
○ renderCondition  
○ renderIf  
○ render

12. What’s the purpose of the "express" package in Node.js?

○ To create a user interface  
○ To handle server-side routing and middleware  
○ To manage state in React  
○ To generate HTML templates

13. What is the main role of Babel in a React project?

○ To provide styling  
○ To manage state  
○ To transpile JSX to JavaScript  
○ To handle API requests

14. Which of the following is an example of a controlled component in React?

○ An input field with a value managed by state  
○ A component with complex logic  
○ A component that directly modifies the DOM  
○ A component that uses inline styles

15. Which lifecycle method is called before a component is removed from the DOM?

○ componentWillUnmount  
○ componentDidUpdate  
○ componentWillUnrender  
○ componentWillUnmounted