1. What is EcmaScript or ES?

   1 / 1 point

   ⦿ A standardized name for JavaScript

   ◯ A regulated name for JSON

   ◯ A communication standard

   ◯ A programming organization

   ✓ **Correct**
   Correct! EcmaScript (ES) is Ecma's specification to which JavaScript adheres.

2. Which feature in E6 limits the scope of variables?

   1 / 1 point

   ⦿ let

   ◯ const

   ◯ Arrow functions

   ◯ promise

   ✓ **Correct**
   Correct! let allows you to restrict the scope of variables within the block where they were declared.

3. What is the state of a promise object when the operation executes successfully?

   1 / 1 point

   ◯ Constant

   ⦿ Fulfilled

   ◯ Pending

   ◯ End

   ✓ **Correct**
   Correct! When the operation executes successfully, the promise is in the fulfilled state.

4. React is an open-source library created and maintained by Facebook and community developers. What is it mainly used to build? **1 / 1 point**

   ○ Error messages

   ○ Accessibility messages

   ◉ Complex UIs

   ○ AI questions

   ✓ **Correct**
   Correct! React is a framework for building client-side dynamic web applications.

5. Facebook provides the Create React App to simplify creating React apps. What must be installed in order to run npx create-react-app with the name of the app you want to create? **1 / 1 point**

   ○ JavaScript

   ○ The XML editor

   ○ Facebook

   ◉ Node.js

   ✓ **Correct**
   Correct! If you have Node.js installed, you can run npx create-react-app with the name of the application you want to create.

6. Functional components are most useful when the component has properties, but what is the restriction? **1 / 1 point**

   ○ Properties can't be user defined.

   ◉ The component lifecycle does not require management.

   ○ Properties can't be passed as parameters to the function.

   ○ Properties can't have uppercase characters.

   ✓ **Correct**
   Correct! Functional components are most useful when the component has properties, but the lifecycle of the component does not have to be managed.

7. What makes class components more preferable than functional components? **1 / 1 point**

   ◉ Versatility

   ○ Rigidity

   ○ Definition

   ○ Simplicity

   ✓ **Correct**
   Correct! Class components are preferred more than functional components because of their versatility.

8. In the Working with React Components video, what does the incrementCounter method do in the React app?

1 / 1 point

○ Routes a command through a component

○ Passes a value to the GUI

◉ Updates a state so a component is rendered again

○ Stops the application

✓ **Correct**
Correct! When the counter increments, the state changes.

9. What is the benefit of using the JSX transformation step in HTML?

1 / 1 point

◉ Converts HTML tags into React elements

○ Helpful as a visual aid

○ Can be parsed by a JavaScript engine

○ Browser understands JSX

✓ **Correct**
Correct! JSX converts HTML tags into React elements and makes it easier to write React applications.

10. Which of the following features can be implemented using React Hook in functional components?

1 / 1 point

○ Event

○ Props

○ Logic

◉ Lifecycle methods

✓ **Correct**
Correct! Lifecycle methods functionality can be added by implementing React Hooks in functional components.