1. What is a State?   1 / 1 point

   ◉ An object that contains information about the component

   ○ A component's render function that returns data about an attribute

   ○ A parent component function that takes a string argument

   ○ A piece of software that passes data between React components

   > ✓ **Correct**
   > Correct. The state is a built-in React object that is used to contain data or information about the component.

2. What is used to pass data between React components?   1 / 1 point

   ○ HTML attribute

   ○ Shared state

   ◉ Prop

   ○ Local state

   > ✓ **Correct**
   > Correct. Props, short for 'properties', are used to pass data between React components. Props are read-only because React's data flow between components is uni-directional, from parent to child only.

3. What do you use to pass data from child components to parent components?   `1 / 1 point`

- ○ Render
- ○ State
- ○ Method
- ◉ Callback

  ⊘ **Correct**
  Correct. You can pass data from child React components to parent React components using callbacks.

4. When does a component lifecycle start?   `1 / 1 point`

- ○ When the state of the component first changes
- ◉ When components are created or mounted on the DOM
- ○ When the component is removed from the DOM
- ○ When a user clicks the mouse or presses the keyboard

  ⊘ **Correct**
  Correct. A component lifecycle starts when components are created or mounted on the DOM. Once mounted, they grow by updating and end by being unmounted from the DOM.

5. What do you use to pass data from parent components to child components?   `1 / 1 point`

- ◉ Prop
- ○ Method
- ○ State
- ○ Callback

  ⊘ **Correct**
  Correct. Using props, you can pass data from parent React components to child React components.

6. Which function is invoked right after the component is mounted on the DOM?

1 / 1 point

○ componentWillMount

○ Render

○ componentWillUnmount

◉ componentDidMount

> ✓ **Correct**
> Correct. The componentDidMount() function is invoked right after the component is mounted on the DOM or, in other words, after the render() function is executed for the first time.

7. What do you use to make a call to an external server asynchronous?

1 / 1 point

◉ Promises

○ Method

○ Props

○ State

> ✓ **Correct**
> Correct. Most requests to external servers are blocking. To make the call asynchronous, you can use promises.

8. What does the postDataToServer method do?   `1 / 1 point`

○ Sets a component with a user state to "None Logged In"

○ Requests all objects in the usercollection destination

◉ Sends the data to the server and updates the response from the server to the component's state completionStatus

○ Creates a JSON object and pushes it into the usercollection array

> ✓ **Correct**
> Correct. The postDataToServer method sends the data to the server and updates the response from the server to the component's state completionStatus.

9. What are the phases of a component test?   `1 / 1 point`

○ Begin, Revise, Complete

○ Query, Run, Resolve

○ Chai, Sinon, and Mocha

◉ Arrange, Act, and Assert

> ✓ **Correct**
> Feedback. Correct. Component tests flow through three phases: Arrange, Act, and Assert.

10. What are the two testing approaches?   `1 / 1 point`

◉ Component and end-to-end

○ Regression and event

○ Mocha and Chai

○ Simulated and authenticated

> ✓ **Correct**
> Correct. You can render component trees in a simple test environment and assert their output, or you can run a complete application in a realistic browser environment that integrates all tests into one big end-to-end test.