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Grade received 100% **Latest Submission Grade** 100% **To pass** 80% or higher

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1.	What are some of the features of component containment? Select all that apply.	1/1 point
	A component that uses the children prop to pass children elements directly as their content.	
	Correct Correct, all the content of the generic box is provided via the children prop.	
	The fact that some components don't know their children ahead of time.	
	Correct Correct, they leverage the children prop.	
	A component that acts as a generic box.	
	A special case of other components.	
2.	What are the props that all components have by default? Select all that apply.	1/1 point
	children	
	type render	
	✓ CorrectCorrect, all components have an implicit children prop.	
3.	What is a React Element? Select all that apply.	1/1 point
	A React Component that represents a simple DOM node, like a button.	
	A JavaScript object that represents the final HTML output.	
	 ✓ Correct Correct, they represent what the UI should look like. 	
	An intermediary representation that describes a component instance.	
	 Correct Correct, JSX gets transformed into that intermediary representation that is a descriptive object. 	
4.	Assuming you have the below component, what are all the features implemented from component composition with children?	1/1 point
	<pre>function ConfirmationDialog() { return (</pre>	
	9 10 11); 12 }	

- Component specialization.
- Component specialization and component containment.
- Component containment.

Correct, **ConfirmationDialog** is a special case of **Dialog** and the **Dialog** is an example of a generic box (containment) that uses children to lay out the content.

5. What are some of the use cases that the React.cloneElement API allows you to achieve? Select all that apply.

1/1 point

- Extend the functionality of children components.
 - **⊘** Correct

That's correct. The **React.cloneElement** API allows you to extend the functionality of children components.

- Add to children properties.
 - **⊘** Correct

That's correct. The React.cloneElement API allows you to add to children's properties.

- Modify children's properties.
 - ✓ Correct

That's correct. The React.cloneElement API allows you to modify children's properties.

6. Assuming you have the following Row component that uses React.Children.map to perform some dynamic transformation in each child element, in order to add some custom styles, what's wrong about its implementation? Select all that apply.

1/1 point

```
const Row = ({ children, spacing }) => {
       const childStyle = {
2
        marginLeft: `${spacing}px`,
3
       }:
4
5
6
      return(
7
        <div className="Row">
8
          {React.Children.map(children, (child, index) => {
g
             child.props.style = {
10
             ...child.props.style,
11
               ...(index > 0 ? childStyle : {}),
12
            }:
13
14
            return child;
15
          })}
16
         </div>
17
       );
     };
18
```

- Each child is missing a key, causing potential problems if the list order changes.
- O You can't use the spread operator in the style prop.
- Each child is being mutated.
 - ✓ Correct

Correct, props are being mutated and that is a React breaking rule. You should use **React.cloneElement** to create a copy of the elements first.

7. Assuming you have the following set of components, what would be logged into the console when clicking the Submit button that gets rendered on the screen?

1/1 point

		<pre>const handleClick = () => { console.log("WithClick"); }; return (props) => { return <component onclick="{handleClick}" {props}=""></component>; }; const MyButton = withClick(Button); export default function App() { return <mybutton =="" onclick="{()"> console.log("AppClick")}>Submit</mybutton>; } </pre>	
	0	"ButtonClick"	
	•	"AppClick"	
	0	"WithClick"	
	(Correct Correct, due to the order of the spread operator in the different components, the original onClick prop passed to MyButton takes precedence.	
8.	Ame	ong the below options, what are valid solutions to encapsulate cross-cutting concerns? Select all that apply	1/1 point
	~	Render props pattern.	
	Q	Correct Correct, that's one possible abstraction.	
	~	Custom hooks.	
	(Correct Correct, that's one possible abstraction.	
	~	Higher order components.	
	(Correct Correct, that's one possible abstraction.	
		Components that consume context.	
9.	Wha	at does the screen utility object from react-testing-library represent when performing queries against it?	1/1 point
	•	The whole page or root document	
	0	The whole virtual DOM	
	0	Your laptop screen	
	(~	Correct That's correct, the screen utility object from react-testing-library represents the root document when performing queries against it.	
10	. Whe	en writing tests with Jest and react-testing-library, what matcher would you have to use to assert that a button is disabled?	1/1 point
	O	toHaveAttribute	
	0	toHaveBeenCalled	
	(~	That's correct, When writing tests with Jest and react-testing-library, you would use toHaveAttribute to assert that a button is disabled.	