Started on Tuesday, 5 August 2025, 4:54 PM

State Finished

Completed on Tuesday, 5 August 2025, 5:07 PM

Time taken 12 mins 27 secs

Marks 13.00/16.00

Grade 81.25 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

How do you pass props to a functional component?

const MyComponent = ((name)) => {

return <div>(name) </div>;
};

a. By using setProps.

b. By passing them as function arguments.

Question 2

Complete

Mark 1.00 out of 1.00

How would you conditionally render a component in React?

oc. By using the this.props syntax.

d. By using useState.

- The message will display 'Welcome, User!' because isLoggedIn is true.
- O b. The component will throw an error due to improper JSX usage.
- oc. The message will display 'Please Log In' regardless of the condition.
- Od. The component will display both messages.

Question 3 Complete Mark 1.00 out of 1.00

What is the correct usage of useEffect to log a message when the component mounts?

```
const MyComponent = () => {
  useEffect(() => {
    console.log('Component mounted');
  }, []);
  return <div>Hello</div>;
};
```

- a. The message will log every time the component's state updates.
- b. The message will log every time the component renders.
- o. The message will not log because the useEffect hook is incorrect.
- o d. The message will log once, when the component is first mounted.

Question 4

Complete

Mark 0.00 out of 1.00

What is the output of the following code?

- a. "Rendering Child" will never be printed.
- b. "Rendering Child" will be printed on every re-render of Parent.
- o c. "Rendering Child" will be printed every time the button is clicked.
- \bigcirc d. "Rendering Child" will be printed only the first time the component is rendered.

uiz: Attempt review	http://10.11.52.100/mod/quiz/review.php?attempt=23518&c
Question 5	
Complete	
Mark 0.00 out of 1.00	
What is the output of the following code?	
<pre>const MyComponent = () => {</pre>	
<pre>const [count, setCount] = useState(0); const memoizedCallback = useMemo(() => () =</pre>	-> cot(ount(count + 1) [count]):
return volution onClick={memoizedCallback}>{	
};	
a. The application will crash because of improper of the control of the cont	useMemo usage.
b. The count will increment correctly but in an inef	-
c. The button will never update its count because	
d. The button text will increment correctly when cl	
Question 6	
Complete	

```
const MyComponent = () => {
 const [name, setName] = useState('John');
 useEffect(() => {
   setName('Doe');
 }, [name]);
 return <div>{name}</div>;
};
```

- a. The component will result in an infinite loop of re-renders.
- Ob. The component will display an empty string.
- Oc. The name will always stay 'John'.
- Od. The component will display 'John' initially and 'Doe' afterwards.

Question 7

Complete

Mark 1.00 out of 1.00

What is the output of the following code?

```
const MyComponent = () => {
 const [counter, setCounter] = useState(0);
 const increment = useMemo(() => () => setCounter(counter + 1), []);
 return <button onClick={increment}>{counter}</button>;
```

- a. The button will display '0' and increment correctly on click.
- Ob. The button will display 'NaN'.
- o. The button will throw an error.
- o d. The button will display '0' but will not update after the first render.

Question 8	
Complete	
Mark 1.00 out of 1.00	

- a. The list will be empty even after the button is clicked.
- b. The 'Orange' item will be added, but it won't be rendered correctly.
- \bigcirc c. The button will throw an error because setItems is improperly used.
- d. The 'Orange' item will be added and displayed in the list when the button is clicked.

```
Question 9
Complete
Mark 1.00 out of 1.00
```

What will be the output of the following code?

```
const MyComponent = () => {
  const [count, setCount] = useState(0);
  const increment = () => setCount(count + 1);
  return <button onClick={increment}>{count}</button>;
}
```

- a. `0` will always be displayed.
- b. The button text will keep incrementing when clicked.
- oc. An infinite loop will occur.
- Od. The button text will change from 0 to 1, but won't increment further.

Question 10

Complete

Mark 0.00 out of 1.00

What will be the result of the following code?

```
const Parent = () => {
  const [state, setState] = useState({ name: 'Alice', age: 25 });
  const changeName = () => setState((prevState) => ({ ...prevState, name: 'Bob' }));
  return <button onClick={changeName}>{state.name}</button>;
};
```

- a. The button text will change from 'Alice' to 'Bob' when clicked.
- b. The name will remain 'Alice' even after clicking the button.
- o c. The button will throw an error due to object immutability.
- od. The button will never render anything.

Question 11	
Complete	
Mark 1.00 out of 1.00	
What will happen when you call useEffect with an empty dependency array?	
useEffect(() => {	
<pre>console.log('Effect runs only once');</pre>	
}, []);	
a. The effect will run only once.	
○ b. The effect will run only when the component unmounts.	
c. The effect will run on every render.	
d. The effect will run after the first render and every time the state changes.	
12	
Question 12 Complete	
Mark 1.00 out of 1.00	
What will the following code output?	
<pre>const MyComponent = () => {</pre>	
<pre>const [count, setCount] = useState(0); useEffect(() => {</pre>	
setCount(count + 1);	
}, [count]);	
return <div>{count}</div> ;	
} ;	
a. The value will increment correctly every time the component re-renders.	
b. The value will never update due to a circular state update.	
c. The value will always stay at 0.	
d. An infinite loop will occur.	
Question 13	
Complete	
Mark 1.00 out of 1.00	
What will the following code output?	
<pre>const MyComponent = () => { const [state, setState] = useState({});</pre>	
setState({state, name: 'John'});	
return <div>{state.name}</div> ;	
} ;	
a. state.name will be 'undefined' because the state is overwritten.	
b. state.name will stay empty.	
c. state.name will be 'John'.	
d. The component will throw an error.	
a. The component will allow all error.	

Question 14
Complete
Mark 1.00 out of 1.00
What will the following code render?
<pre>const MyComponent = () => {</pre>
<pre>const [count, setCount] = useState(0);</pre>
<pre>const increment = useCallback(() => setCount(count + 1), [count]); return <button onclick="{increment}">{count}</button>;</pre>
};
a. The button will not update after the first render.
b. The counter will show stale values due to the closure.
c. The application will crash due to a closure issue.
d. The button will render correctly, incrementing the counter.
Question 15
Complete
Mark 1.00 out of 1.00
<pre>const MyComponent = () => { const [value, setValue] = useState(''); return <input =="" onchange="{(e)" value="{value}"/> setValue(e.target.value)} />; };</pre>
a. useRef
b. useState
○ c. useEffect
○ d. useMemo
Question 16
Complete
Mark 1.00 out of 1.00
Which statement is true about React.StrictMode?
a. It enables hooks automatically.
b. It reduces the size of the React bundle.
c. It allows for performance optimization.
d. It performs an extra render to detect potential problems.