Started on	Tuesday, 5 August 2025, 4:54 PM
State	Finished
Completed on	Tuesday, 5 August 2025, 5:06 PM
Time taken	11 mins 44 secs
Marks	11.00/16.00
Grade	<b>68.75</b> out of 100.00
Question 1 Complete Mark 1.00 out of 1.00  How do you pass proconst MyComponent return <div>{name}- };</div>	

### Question 2

Complete

Mark 1.00 out of 1.00

a. By using setProps.b. By using useState.

How would you conditionally render a component in React?

c. By passing them as function arguments.

Od. By using the this.props syntax.

- a. The message will display 'Please Log In' regardless of the condition.
- $\bigcirc$  b. The component will throw an error due to improper JSX usage.
- c. The message will display 'Welcome, User!' because isLoggedIn is true.
- d. The component will display both messages.

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# 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 renders.
- b. The message will log every time the component's state updates.
- c. The message will not log because the useEffect hook is incorrect.
- od. 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 be printed on every re-render of Parent.
- b. "Rendering Child" will be printed only the first time the component is rendered.
- c. "Rendering Child" will be printed every time the button is clicked.
- d. "Rendering Child" will never be printed.

Question 5	
Complete	
Mark 0.00 out of 1.00	

What is the output of the following code?

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

- a. The application will crash because of improper useMemo usage.
- Ob. The button text will increment correctly when clicked.
- o. The count will increment correctly but in an inefficient way.
- O d. The button will never update its count because the increment function will not re-render.

### Question 6

Complete

Mark 1.00 out of 1.00

What is the output of the following code?

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

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

Mark 0.00 out of 1.00

### Question 7 Complete

```
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>;
};
```

- $\hfill \bigcirc$  a. The button will display '0' and increment correctly on click.
- b. The button will display 'NaN'.
- c. The button will throw an error.
- d. The button will display '0' but will not update after the first render.

#### Question 8

Complete

Mark 1.00 out of 1.00

What is the result of this code snippet?

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

```
Question 9
Complete
Mark 0.00 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 change from 0 to 1, but won't increment further.

  c. The button text will keep incrementing when clicked.
  Od. An infinite loop will occur.
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 will throw an error due to object immutability.

    b. The name will remain 'Alice' even after clicking the button.

  oc. The button text will change from 'Alice' to 'Bob' when clicked.
  d. 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(() => {
    console.log('Effect runs only once');
 }, []);

 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.
```

## Question 12 Complete Mark 1.00 out of 1.00

What will the following code output?

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

- a. The value will increment correctly every time the component re-renders.
- b. An infinite loop will occur.
- c. The value will never update due to a circular state update.
- Od. The value will always stay at 0.

### Question 13

Complete

Mark 1.00 out of 1.00

What will the following code output?

```
const MyComponent = () => {
  const [state, setState] = useState({});
  setState({...state, name: 'John'});
  return <div>{state.name}</div>;
};
```

- a. state.name will be 'undefined' because the state is overwritten.
- Ob. state.name will be 'John'.
- c. state.name will stay empty.
- od. The component will throw an error.

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

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