Started on Tuesday, 5 August 2025, 4:54 PM State Finished Completed on Tuesday, 5 August 2025, 5:06 PM Time taken 11 mins 56 secs Marks 9.00/16.00 **Grade 56.25** 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 useState. b. By using setProps. c. By using the this.props syntax. d. 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?

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

Question 3 Complete Mark 1.00 out of 1.00

What is the correct usage of use Effect to \log a message when the component mounts?

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

- a. The message will not log because the useEffect hook is incorrect.
- b. The message will log every time the component renders.
- c. The message will log every time the component's state updates.
- 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.
- O b. "Rendering Child" will be printed on every re-render of Parent.
- oc. "Rendering Child" will be printed only the first time the component is rendered.
- od. "Rendering Child" will be printed every time the button is clicked.

Complete	Question 5
	Complete
Mark 0.00 out of 1.00	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 count will increment correctly but in an inefficient way.
- oc. The button will never update its count because the increment function will not re-render.
- Od. The button text will increment correctly when clicked.

Question 6

Complete

Mark 0.00 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 name will always stay 'John'.
- Ob. The component will result in an infinite loop of re-renders.
- o. The component will display 'John' initially and 'Doe' afterwards.
- d. The component will display an empty string.

Question 7

Complete

Mark 0.00 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' but will not update after the first render.
- b. The button will throw an error.
- o. The button will display '0' and increment correctly on click.
- Od. The button will display 'NaN'.

Question 8 Complete Mark 1.00 out of 1.00

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

```
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. An infinite loop will occur.
- ob. `0` will always be displayed.
- O c. The button text will change from 0 to 1, but won't increment further.
- od. The button text will keep incrementing when clicked.

Question 10

Complete

Mark 1.00 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 button will throw an error due to object immutability.
- c. The button will never render anything.
- Od. The name will remain 'Alice' even after clicking the button.

Question 11
Complete
Mark 0.00 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 on every render.
b. The effect will run after the first render and every time the state changes.
○ c. The effect will run only once.
○ d. The effect will run only when the component unmounts.
Question 12
Complete
Mark 1.00 out of 1.00
What will the following code output?
<pre>const MyComponent = () => { const [count, setCount] = useState(0);</pre>
<pre>useEffect(() => {</pre>
<pre>setCount(count + 1);</pre>
}, [count]);
return <div>{count}</div> ;
} ;
a. The value will always stay at 0.
b. The value will increment correctly every time the component re-renders.
c. An infinite loop will occur. d. The value will a proposed the top of significant to a point of the control of the
d. The value will never update due to a circular state update.
Question 13
Complete
Mark 0.00 out of 1.00
What will the following code output?
<pre>const MyComponent = () => {</pre>
<pre>const [state, setState] = useState({});</pre>
<pre>setState({state, name: 'John'});</pre>
return <div>{state.name}</div> ;
} ;
a. The component will throw an error.
b. state.name will be 'John'.
→ · · · · · · · · · · · · · · · · · · ·

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 \bigcirc c. state.name will be 'undefined' because the state is overwritten.

Od. state.name will stay empty.

Question 14	
Complete	
Mark 0.00 out	of 1.00
\A/bat will	the following code render?
	/Component = () => {
	[count, setCount] = useState(0);
	<pre>increment = useCallback(() => setCount(count + 1), [count]);</pre>
returr	<pre>n <button onclick="{increment}">{count}</button>;</pre>
};	
○ a. T	The counter will show stale values due to the closure.
b. T	The button will not update after the first render.
	The button will render correctly, incrementing the counter.
	The application will crash due to a closure issue.
Question 15	
Complete	
Mark 1.00 out	of 1.00
const My	<pre>the following hooks should you use for handling form inputs in a functional component? //Component = () => { [value, setValue] = useState(''); n <input =="" onchange="{(e)" value="{value}"/> setValue(e.target.value)} />;</pre>
a 2 1	iseState
) b. u	
	iseEffect
∪ d. ι	iseMemo
Question 16	
Complete	
Mark 1.00 out	of 1.00
Which sta	stement is true about React.StrictMode?
a. I	t performs an extra render to detect potential problems.
	t performs an extra render to detect potential problems. t enables hooks automatically.
O b. I	t enables hooks automatically.
 b. I c. I	

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