

Started on	Tuesday, 27 May 2025, 10:34 AM
State	Finished
Completed on	Tuesday, 27 May 2025, 10:49 AM
Time taken	14 mins 33 secs
Marks	4.00/5.00
Grade	80.00 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

What is logged repeatedly in this example?

```
function useLogger(value) {  
  React.useEffect(() => {  
    const id = setInterval(() => {  
      console.log("Value is:", value);  
    }, 1000);  
    return () => clearInterval(id);  
  }, []);  
}
```

```
function App() {  
  const [count, setCount] = React.useState(0);  
  useLogger(count);  
  return <button onClick={() => setCount(count + 1)}>+</button>;  
}
```

- ☐ a. A runtime error
- ☐ b. Updated count value each second
- ☒ c. Always 0
- ☐ d. Undefined

Question 2

Complete

Mark 1.00 out of 1.00

What is printed every second after clicking the button a few times?

```
function App() {  
  const [count, setCount] = React.useState(0);  
  const log = () => {  
    console.log("Count is:", count);  
  };  
  React.useEffect(() => {  
    const id = setInterval(log, 1000);  
    return () => clearInterval(id);  
  }, []);  
}
```

```
  return <button onClick={() => setCount(count + 1)}>+</button>;  
}
```

- ☐ a. The latest count value
- ☐ b. Increments after every click
- ☐ c. A different number each second
- ☒ d. Always 0

Question 3

Complete

Mark 0.00 out of 1.00

What is printed to the console on the first button click?

```
function App() {  
  const [state, setState] = React.useState(0);  
  const ref = React.useRef(0);  
  const handleClick = () => {  
    ref.current += 1;  
    setState(state + 1);  
    console.log("State:", state, "Ref:", ref.current);  
  };  
}
```

```
  return <button onClick={handleClick}>Click</button>;  
}
```

- ☐ a. State: 1 Ref: 2
- ☐ b. State: 1 Ref: 0
- ☒ c. State: 1 Ref: 1
- ☐ d. State: 0 Ref: 1

Question 4

Complete

Mark 1.00 out of 1.00

What will be logged to the console when the following component is rendered inside `<React.StrictMode>`?

```
function App() {  
  React.useEffect(() => {  
    console.log("Effect ran");  
  }, []);  
}
```

```
  return <div>Hello</div>;  
}
```

- ☐ a. Compilation error
- ☐ b. Nothing
- ☐ c. Effect ran
- ☒ d. Effect ran (logged twice)

Question 5

Complete

Mark 1.00 out of 1.00

Why does the following component cause an infinite render loop?

```
function App() {  
  const [count, setCount] = React.useState(0);  
  const obj = {  
    increment: () => setCount(count + 1),  
  };  
  React.useEffect(() => {  
    obj.increment();  
  }, [obj]);  
}
```

```
  return <div>{count}</div>;  
}
```

- ☐ a. There is no loop
- ☒ b. Because obj is re-created on every render
- ☐ c. Because increment modifies state incorrectly
- ☐ d. Because count changes inside useEffect