```
        Started on
        Tuesday, 27 May 2025, 10:33 AM

        State
        Finished

        Completed on
        Tuesday, 27 May 2025, 10:48 AM

        Time taken
        14 mins 31 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. Updated count value each second
- b. Always 0
- c. Undefined
- d. A runtime error

```
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. Increments after every click
- b. Always 0
- o. The latest count value
- d. A different number each second

Question 3

Complete

Mark 1.00 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: 0
- b. State: 1 Ref: 1
- oc. State: 0 Ref: 1
- d. State: 1 Ref: 2

Question 4 Not answered Marked 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. Nothing
- b. Effect ran (logged twice)
- c. Effect ran
- d. Compilation error

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
- oc. Because count changes inside useEffect
- Od. Because increment modifies state incorrectly