



Answersheet

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No. of questions attempted: 7

Submitted at: 2 Jun, 2025 12:20 PM

Assignment: Returning Functions with
Closures in JavaScript

Total no. of questions: 7

Total marks: 11

Result: **Not reviewed yet**

Sl. No.	Question	Actions
1	<p>What will be the output of the following code snippet?</p> <pre>function outerFunction() { let outerVar = 10; function innerFunction() { console.log(outerVar); } return innerFunction; } let closureFunc = outerFunction(); closureFunc();</pre>	<p>1 mark</p> <p>Correct answer</p> <div>1 mark</div> <div><div>1. undefined</div><div>2. ReferenceError: outerVar is not defined</div><div>3. 10 (Logged to console)</div></div>



4. '10'

2

What will be the output of the following code snippet?

1 mark

```
function createCounter() {
```

```
  let count = 0;
```

```
  return function() {
```

```
    return ++count;
```

```
  };
```

```
}
```

```
let counter1 = createCounter();
```

```
let counter2 = createCounter();
```

```
console.log(counter1());
```

```
console.log(counter2());
```

1. 1, 1

2. 1, 2

3. 2, 1

4. 1 (Logged to console), 1 (Logged to console)

Correct answer

1 mark

3

What will be the output of the following code snippet?

1 mark

```
let message = "Global";
```

```
function outerFunction() {
```

```
  let message = "Outer";
```

```
  function innerFunction() {
```

Correct answer

1 mark



```
console.log(message);  
  
}  
  
return innerFunction;  
  
}  
  
let closureFunc = outerFunction();  
  
closureFunc();
```

1. "Outer"

2. "Global"

3. undefined

4. "Outer" (Logged to console)

4

What will be the output of the following code snippet?

1 mark

Correct answer

```
let num = 5;  
  
function outerFunc() {  
  
    let num = 10;  
  
    setTimeout(function() {  
  
        console.log(num);  
  
    }, 1000);  
  
}  
  
outerFunc();
```

1. 5

2. 10

3. undefined

4. 10 (Logged to console)

1 mark

5

What will be the output of the following code snippet?

1 mark

Correct answer

```
let a = 1;
```



```
function outerFunc() {
```

```
  let b = 2;
```

```
  function innerFunc() {
```

```
    let c = 3;
```

```
    console.log(a + b + c);
```

```
  }
```

```
  return innerFunc;
```

```
}
```

```
let closureFunc = outerFunc();
```

```
closureFunc();
```

1. 6 (Logged to console)

2. 3

3. 10

4. 6

1 mark

6

What are closures?

5 marks

Marks

When a function is returned from another function and it still has access to the variables declared in the outer function, that behavior is called a closure.

0

7

What is the benefit of using closures in JavaScript?

1 mark

Correct answer

1. They improve code readability and maintainability.

2. They allow for dynamic function creation and composition.

1 mark



3. They enhance code performance by reducing memory consumption.

4. They enable encapsulation and data privacy by hiding variables within function scopes.