



Answersheet

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Assignment: Call Stack in JavaScript

Result: **Not reviewed yet**

No. of questions attempted: 5

Total no. of questions: 5

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Total marks: 5

Sl. No.	Question	Actions
1	<div>What is execution context in JavaScript?<div>1 mark</div><div><div>1. The environment in which JavaScript code is executed, including variable scope and function declarations</div><div>2. The process of compiling JavaScript code</div><div>3. The set of rules governing JavaScript syntax and semantics</div><div>4. The mechanism for handling asynchronous code execution</div></div></div>	<div>Correct answer</div> <div>1 mark</div>
2	<div>What is the call stack in JavaScript?<div>1 mark</div><div><div>1. A mechanism for managing the order of function calls and their execution contexts</div><div>2. A data structure used for storing asynchronous function calls</div><div>3. A stack used for storing global variables and functions</div></div></div>	<div>Correct answer</div> <div>1 mark</div>



4. A structure for handling recursive function calls

3

Why is understanding the call stack crucial for debugging and optimizing code in JavaScript? 1 mark

1. It provides insights into the order of function calls and helps identify errors and performance bottlenecks

2. It helps in managing asynchronous code execution

3. It allows for better organization of global variables and functions

4. It enables the execution of functions in parallel for improved performance

Correct answer

1 mark

4

What happens when the call stack becomes too large in JavaScript? 1 mark

1. A call stack overflow error occurs, indicating that there are too many nested function calls

2. The JavaScript engine automatically increases the call stack size

3. The call stack resets, discarding all previous function calls

4. The JavaScript program terminates abruptly

Correct answer

1 mark

5

When is an execution context created for each function call in the call stack? 1 mark

1. For every function call, synchronous or asynchronous

2. Only for asynchronous function calls

Correct answer

1 mark



3. Only for functions declared with the `async` keyword

4. Only for functions declared with the `await` keyword