



Competency Test - Modern JavaScript Concepts

Below is a scored review of your assessment. All questions are shown.



Correct Answer



Partially Correct



Incorrect Answer

1 What does the 'm' flag do in a JavaScript regular expression?

Your Answer Changes the behavior of the ^ and \$ characters to match the beginning and end of each line in a multi-line input string.

Correct Answer Changes the behavior of the ^ and \$ characters to match the beginning and end of each line in a multi-line input string.

Explanation

The 'm' flag in a JavaScript regular expression stands for multi-line and changes the behavior of the ^ and \$ characters to match the beginning and end of each line in a multi-line input string. Without the 'm' flag, ^ and \$ match the beginning and end of the entire input string, respectively.

- 2 What is the correct way to match a string that starts with a word character and ends with a digit?

Your Answer `/w+\d+/`

Correct Answer `/w+\d/`

Explanation

The '+' sign ensures that the regular expression matches at least one character for both `\w` and `\d`.

- 3** Use RegExp literal notation when the RegExp will be changing and use the RegExp constructor function when the RegExp will remain constant.

Your Answer True

Correct Answer False

Explanation

This is the opposite of how to use them: Use RegExp constructor function notation when the RegExp will be changing and use the RegExp literal notation when the RegExp will remain constant.

4

What will be the output of the following code snippet?

```
const {  
  name: myName  
} = {  
  name: 'Lydia'  
};  
console.log(name);
```

Your Answer

ReferenceError

Correct Answer

ReferenceError

Explanation

When we unpack the property name from the object on the right-hand side, we assign its value "Lydia" to a variable with the name myName. With { name: myName }, we tell JavaScript that we want to create a new variable called myName with the value of the name property on the right-hand side. Since we try to log name, a variable that is not defined, a ReferenceError gets thrown.

5 Which of the following is NOT true about let and const in ES6?

Your Answer They are hoisted to the top of the block

Correct Answer They are hoisted to the top of the block

Explanation

let and const are not hoisted to the top of the block, they are only accessible after they are declared.

6

What will be the output of the following code snippet?

```
var arr = [1, 2, 3];  
var result = arr.push(4);  
console.log(result);
```

Your Answer 4

Correct Answer 4

Explanation

The code inserts a new element into the last of the given array. So the value of the result is 4.

7

What will be the output of the following code snippet?

```
const a = [1, 2, 3];  
const b = a.map(x => x * 2).filter(x => x > 3);  
console.log(b);
```

Your Answer [4, 6]

Correct Answer [4, 6]

Explanation

The `map()` function applies a function to each element of an array and returns a new array with the results. In this case, the function multiplies each element by 2, resulting in `[2, 4, 6]`. The `filter()` function creates a new array with all elements that pass the test implemented by the provided function. In this case, the function filters out all elements less than or equal to 3, resulting in `[4, 6]`.

8

The code below returns 3?

```
const arr = [1, 2];  
const reduced = arr.reduce((accumulator, element) => accumulator);
```

Your Answer

False

Correct Answer

False

Explanation

The accumulator does not use a += return. Rather, the most recent return value is stored as the accumulator. The below statement would have the desired result: `const reduced = arr.reduce((accumulator, element) => accumulator + element);`

9 Which of the following is a correct syntax for a default parameter in ES6?

Your Answer `function myFunction(param = value) {}`

Correct Answer `function myFunction(param = value) {}`

Explanation

The correct syntax for a default parameter in ES6 is using the = operator.

10 What does the exec() method in a JavaScript regular expression do?

Your Answer Returns an array of all matches found in the input string.

Correct Answer Returns the index of the first match found in the input string.

Explanation

The exec() method in a JavaScript regular expression returns the index of the first match found in the input string. It also updates the lastIndex property of the regular expression object, which can be used in subsequent calls to exec() to continue the search from where the previous search left off.

11 What is the purpose of the for...of loop in ES6?

Your Answer To iterate over the values of an array

Correct Answer To iterate over the values of an array

Explanation

The for...of loop is used to iterate over the values of an array.

12

What will be the output of the following code snippet?

```
const a = [1, 2, 3];  
const b = a.map(x => x * x).reduce((acc, x) => acc + x, 0);  
console.log(b);
```

Your Answer 14

Correct Answer 14

Explanation

The code uses the `map()` method to create a new array `a` by squaring each element of the original array `[1, 2, 3]`. This results in a new array `[1, 4, 9]`. Then, the `reduce()` method is called on this new array, which sums all the elements of the array to produce a final result. In this case, the initial value of the accumulator `acc` is set to `0`. So, the result of the `reduce()` method is: $0 + 1 + 4 + 9 = 14$. Finally, the `console.log()` statement outputs the value of `b`, which is `14`.

13 What does a return statement do in a forEach loop on an Array?

Your Answer Nothing

Correct Answer Returns the specified value

Explanation

If you need to return a value from a loop, don't use the forEach loop.

14

What will be the output of the following code snippet?

```
const myFunc = ({  
  x,  
  y,  
  z  
}) => {  
  console.log(x, y, z);  
};  
myFunc(1, 2, 3);
```

Your Answer

undefined undefined undefined

Correct Answer

undefined undefined undefined

Explanation

myFunc expects an object with properties x, y and z as its argument. Since we're only passing three separate numeric values (1, 2, 3) instead of one object with properties x, y and z ({x: 1, y: 2, z: 3}), x, y and z have their default value of undefined.

15 RegExp do not have any properties.

Your Answer False

Correct Answer False

Explanation

Regexps have many properties, such as `.flags` and `.global`.

16 Which es6 array functions in JavaScript return a new array?

Your Answer

- map()
- filter()
- find()

Correct Answer

- map()
- filter()

Explanation

map() and filter() returns new array

17

What will be the output of the following code snippet?

```
let myArray = [1, 2, 3];  
for (let item in myArray) {  
  console.log(item);  
}
```

Your Answer 0 '1' '2'

Correct Answer 0 '1' '2'

Explanation

The 'for...in' loop in JavaScript iterates over the keys of an object or array. Therefore, the 'item' variable in this example is the index of the current element.

18 Which statement is true about Functional Programming?

Your Answer

Side effects are not allowed

Correct Answer

Side effects are not allowed

Explanation

Functional Programming (FP) is a programming paradigm that emphasizes the use of pure functions, which are functions that have no side effects and always return the same output given the same input. FP promotes a declarative and modular approach to programming, where functions are composed to solve problems.

19 Which of the following statements about the 'this' keyword in JavaScript is true?

Your Answer It refers to the object on which the method was invoked

Correct Answer It refers to the object on which the method was invoked

Explanation

In JavaScript, the 'this' keyword refers to the object on which the method was invoked.

20

What will be the output of the following code snippet?

```
let a = 10;  
let b = 20;  
[a, b] = [b, a];  
console.log(a, b);
```

Your Answer

10 20

Correct Answer

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Explanation

The destructuring assignment in this example swaps the values of 'a' and 'b', so the console output is '20 10'.

Summary

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