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End Course Quiz Assessment - Introduction to Computer Programming

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

	Correct Answer		Partially Correct		Incorrect Answer

41   What's the output? ``` [[0, 1], [2, 3]].reduce((acc, cur) => { return acc.concat(cur); },
           [1, 2],); ```

Your Answer   [1, 2, 0, 1, 2, 3]

Correct Answer   [1, 2, 0, 1, 2, 3]

Explanation

[1, 2] is our initial value. This is the value we start with, and the value of the very first acc.
During the first round, acc is [1,2], and cur is [0, 1]. We concatenate them, which results in
[1, 2, 0, 1]. Then, [1, 2, 0, 1] is acc and [2, 3] is cur. We concatenate them, and get [1, 2, 0, 1,
2, 3]

42   What will be the output of the following code snippet?

```
for (let i = 0; i <= 10; i++) {
if (i % 2 === 0) {
continue;
}
console.log(i);
}
```

Your Answer   1,3,5,7,9

Correct Answer   1,3,5,7,9

Explanation

The for loop initializes i to 0 and increments it by 1 on each iteration until i is no longer less than or equal to 10. The continue statement skips over even numbers (i.e., those that have a remainder of 0 when divided by 2), causing the loop to output only odd numbers.

43   What is the difference between setTimeout() and setInterval()? Select two options.

Your Answer	setTimeout executes once after a specified time has elapsed setInterval executes repeatedly with a given delay between execuions
Correct Answer	setTimeout executes once after a specified time has elapsed setInterval executes repeatedly with a given delay between execuions

Explanation

1,2

44   What happens if the condition in an if-else statement is not a boolean value in JavaScript?

Your Answer   The code block inside the if statement will execute.

Correct Answer   The code block inside the if statement will execute.

Explanation

In JavaScript, the condition in an if-else statement is evaluated as a boolean value. However, if the condition is not a boolean value, it will be automatically coerced into a boolean using the Boolean() function. Any non-zero number, non-empty string, and non-null object are coerced to true, while zero, an empty string, null, undefined, and NaN are coerced to false.

45   What will be the output of the following code?

```
var x = "hello";
if (x) {
console.log("Hello");
} else {
console.log("World");
}
```

Your Answer   Hello

Correct Answer   Hello

Explanation

In JavaScript, non-empty strings are considered truthy, meaning they are treated as true in a boolean context. Therefore, the if block will execute and "Hello" will be printed to the console.

46   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.

47   Which of the following best describes declarative code in functional programming?

Your Answer   Code that specifies what the result of a task should be without specifying how to get it

Correct Answer   Code that specifies what the result of a task should be without specifying how to get it

Explanation

3

48   What is the output of the following code?

```
let x = 5;
let y = 10;
if (x < y) {
console.log("Hello");
}
if (y < 20) {
console.log("Goodbye");
}
```

Your Answer   Hello Goodbye

Correct Answer   Hello Goodbye

Explanation

The variables x and y are assigned the values 5 and 10, respectively. The first if statement checks if x is less than y, which is true. Therefore, the code block within the first if statement is executed, which logs the string "Hello" to the console. The second if statement checks if y is less than 20, which is also true. Therefore, the code block within the second if statement is executed, which logs the string "Goodbye" to the console.

49   Which of the following methods is used to return a new array containing the elements that satisfy a condition specified by a callback function?

Your Answer   filter()

Correct Answer   filter()

Explanation

The filter() method is used to return a new array containing the elements that satisfy a condition specified by a callback function.

50   What will the code below output to the console?

```
 class Person {
name: string;
DOB: string;
}
console.log(typeof Person);
```

Your Answer   function

Correct Answer   Error

Explanation

The output will be Error

51   Which primitive data type in JavaScript is used to represent non-numeric values?

Your Answer	undefined
Correct Answer	String

Explanation

The String data type is used to represent non-numeric values, while the Number data type is used to represent numeric values.

52   Which loop statement allows you to define the increment value?

Your Answer   None of the above

Correct Answer   for loop

Explanation

The for loop allows you to define the increment value using the third expression in the parentheses.

53 What is the output of the following code?

```
var x = 0;
function foo() {
x++;
if (x > 3) {
clearTimeout(timerId);
}
}
var timerId = setTimeout(function() {
console.log('Hello');
}, 1000);
setInterval(foo, 1000);
```
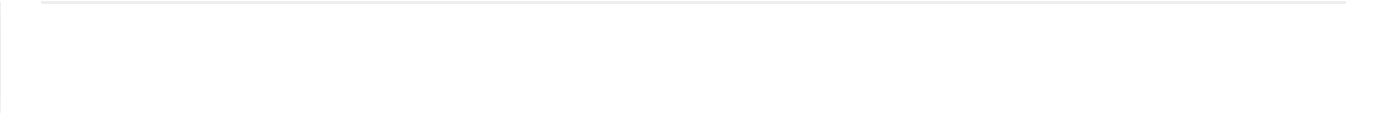
Your Answer   Hello

Correct Answer   Hello

Explanation

The output will be Hello because the setTimeout function logs 'Hello' to the console after a delay of 1000 milliseconds, and the foo function, called every 1000 milliseconds by setInterval, increments x until it reaches a value greater than 3, at which point the clearTimeout function is called to cancel the timer.

54   Can you identify which option is not considered a data structure in programming among the following choices?

Your Answer   Functions

Correct Answer   Functions

Explanation

None.

55   Which of the following is not a valid way to define a function in JavaScript?

Your Answer   class myFunc {}

Correct Answer   class myFunc {}

Explanation

In JavaScript, functions can be defined using the function keyword, function expressions, and arrow functions. However, a function cannot be defined using the class keyword. Therefore, option d is not a valid way to define a function in JavaScript.

56   What does the following code do?

```
var x = 0;
function foo() {
console.log(x);
}
var timerId = setInterval(function() {
x++;
foo();
if (x >= 5) {
clearInterval(timerId);
}
}, 1000);
```

Your Answer   It logs the value of x to the console repeatedly, incrementing it every second, and stops when x is greater than or equal to 5.

Correct Answer   It logs the value of x to the console repeatedly, incrementing it every second, and stops when x is greater than or equal to 5.

Explanation

The setInterval function is used to repeatedly execute the anonymous function every second, which increments the value of x, logs it to the console using the foo function, and stops the execution of setInterval when x is greater than or equal to 5 using clearInterval.

57   Which of the below does Object.freeze() do? Select all that apply

Your Answer   prevents changing the values of properties
                             prevents existing properties from being removed

Correct Answer   prevents new properties from being added
                             prevents changing the values of properties
                             prevents existing properties from being removed
                             prevents changing the enumerability of properties

Explanation

All of the Above

58   The below code compiles and prints 3?

```
const test = () => {
return 1 + 2;
}
console.log(test());
```

Your Answer   True

Correct Answer   True

Explanation

None.

59   What will be the output of the following code snippet?

```
for (let i = 0; i < 3; i++) {
for (let j = 0; j < 2; j++) {
console.log(i, j);
}
}
```

Your Answer   0,0,0,1,1,0,1,1,2,0,2,1

Correct Answer   0,0,0,1,1,0,1,1,2,0,2,1

Explanation

None.

60   RegExp do not have any properties.

Your Answer   False

Correct Answer   False

Explanation

RegExps have many properties, such as .flags and .global.

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