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Mid 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

1 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.

2   Which of the following is a correct way to write a switch statement in JavaScript?

Your Answer   switch (x) {case 1: break; case 2: break;}

Correct Answer   switch (x) {case 1: break; case 2: break;}

Explanation

The correct syntax for a switch statement in JavaScript is to use the "switch (x) {case 1: break; case 2: break;}"

3   What is a variable hoisting in JavaScript?

Your Answer   The process of moving variable declarations to the top of the current scope

Correct Answer   The process of moving variable declarations to the top of the current scope

Explanation

None.

4   What is the result of the following expression: 10 / "5";

Your Answer   2

Correct Answer   2

Explanation

You are Correct !! In JavaScript, the division operator (/) performs arithmetic division on numerical operands. When one or both of the operands are strings, JavaScript automatically coerces the string to a number before performing the division operation. In this case, "5" is coerced to the number 5, and 10 divided by 5 equals 2.

5   Which of the following is true about the use of callbacks in JavaScript?

Your Answer   Callbacks are used for both synchronous and asynchronous
                                   code execution

Correct Answer   Callbacks are used for both synchronous and asynchronous
                                   code execution

Explanation

Callbacks are used in JavaScript for both synchronous and asynchronous code execution,
allowing for the execution of code at a later time or after an operation has completed.

6   What will the code below output to the console?

```
const a = {x: 1};
const b = {...a};
const c = {};
Object.assign(c, a);
a.x = 2;
console.log(a.x);
console.log(b.x);
console.log(c.x);
```

Your Answer   2,1,1

Correct Answer   2,1,1

Explanation

2,1,1

7   What is the result of the following expression: "hello" > "world";

Your Answer   False

Correct Answer   False

Explanation

You are Correct !! In JavaScript, the > operator is used for string comparison. It compares the two strings based on their ASCII values. In this case, "hello" comes before "world" in the ASCII table, so the expression evaluates to false.

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

```
let i = 0;
do {
console.log(i);
i--;
} while (i > 0);
```

Your Answer   0

Correct Answer   0

Explanation

The do...while loop executes at least once, even if the condition is false. In this case, the loop starts with i = 0 and decrements i on each iteration, but the condition i > 0 is never true, so the loop executes only once and outputs 0.

9   What are the three ways to create a new object?

Your Answer   new Object()
                             Object.create()
                             literal notation

Correct Answer   new Object()
                             Object.create()
                             literal notation

Explanation

An example of literal notation: const obj = { a: 1}

10   What happens when the JavaScript Interpreter comes across empty statements?

Your Answer   Ignore the statements

Correct Answer   Ignore the statements

Explanation

You are Correct !! When the JavaScript interpreter encounters an empty statement, it simply ignores it and moves on to the next statement.

11   Which loop statement is used to execute a block of code repeatedly as long as a condition is true?

Your Answer   while loop

Correct Answer   while loop

Explanation

The while loop executes a block of code repeatedly as long as the specified condition is true.

12   Arrow functions only require parenthesis if there are multiple arguments.

Your Answer   False

Correct Answer   False

Explanation

Arrow functions also require parenthesis if there are zero args. If there is exactly one argument parenthesis are optional.

13   What is the output of the following code snippet?

```
var x = 1;
function myFunc() {
console.log(x);
}
var y = function() {
var x = 2;
myFunc();
};
y();
```

Your Answer   1

Correct Answer   1

Explanation

When myFunc is called from within the y function, it uses the value of x in the parent scope (i.e. the global scope), since x is not defined in the local scope of the y function. Therefore, the output of the console.log() statement will be 1.

14   What function property returns the number of args the function expects?

Your Answer   Function.length

Correct Answer   Function.length

Explanation

Functions are objects and thus have properties.The Function.length property returns the number of arguments expected by a function. It indicates the number of formal parameters defined in the function's argument list.

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

```
var a = [];
a.unshift(1);
a.unshift(8);
a.shift();
a.unshift(2,[2,2]);
a.shift();
a.shift();
console.log(a.shift())
```

Your Answer   1

Correct Answer   1

Explanation

The unshift() and shift() methods behave much like push() and pop(), except that they insert and remove elements from the beginning of an array rather than from the end.

16   What does the code print?

```
 function getName() {
var name = "Jon";
function printName() {
console.log(name);
}
printName();
}
getName();
```

Your Answer   Jon

Correct Answer   Jon

Explanation

It throws an error

17   Which of the following is NOT a programming paradigm?

Your Answer   Linear Programming

Correct Answer   Linear Programming

Explanation

You are Correct !! Object-oriented programming, imperative programming, and event-driven programming are all programming paradigms where as Linear programming, on the other hand, is a mathematical optimization technique

18   What is the output of the following code snippet? `function myFunc() {`

```
console.log(this);
}
var myObject = {
myMethod: function() {
myFunc.call(this);
}
};
myObject.myMethod();
```

Your Answer   myObject

Correct Answer   myObject

Explanation

In this code snippet, myMethod is a method of the myObject object, and it calls the myFunc function using the call method with a this value of myObject. Therefore, the output of the console.log() statement in myFunc will be myObject.

19   If myFunction is called as myFunction(5); what will be the return value?

```
function myFunction(x, y) {
const arr = Array.prototype.slice.call(arguments);
return arr.length;
}
```

Your Answer   1

Correct Answer   1

Explanation

1

20   Which of the following methods is used to return the last element of an array?

Your Answer   pop()

Correct Answer   pop()

Explanation

The pop() method is used to remove the last element of an array and return it.

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I'm Done

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