Exam 1

Due Nov 7 at 11:59pm

Points 200

Questions 20

Available Nov 7 at 12am - Nov 7 at 11:59pm about 24 hours

Time Limit 150 Minutes

Attempt History

	Attempt	Time	Score	
LATEST	Attempt 1	99 minutes	110 out of 200 *	

* Some questions not yet graded

(!) Correct answers are hidden.

Score for this quiz: 110 out of 200 *

Submitted Nov 7 at 4:41pm This attempt took 99 minutes.

Question 1	10 / 10 pts
Is JavaScript a multithreaded language?	
○ True	
False	

Question 2	10 / 10 pts	
What the returned value of the print statement console.log(0.1 + 0.2 == 0.3);		
○ True		

False

Question 3 10 / 10 pts					
Which method do you use to add an element at the beginning of an array?					
Example: Given an array					
Before inserting a new element					
arr = ["test1", "test2"];					
After inserting the new element called "test3"					
arr = ["test3", "test1", "test2"]					
shift()					
unshift()					
opush()					
add()					

Question 4	10 / 10 pts
Which of the following statements is invalid?	
O let arr = new Array(5);	
○ let arr = [];	
let arr = Array(5);	

Question 5 10 / 10 pts

What will be the value of z after the last statement is executed?

var x = 10;

var y = 20;

var z = "" + x + y;

1020

Question 6 10 / 10 pts

In JavaScript, when a variable is declared but is not assigned a value what would be the data type of the variable _____

undefined

Question 7 10 / 10 pts

What does the following statement print?

console.log(null == undefined);

- True
- False

Question 8 10 / 10 pts

Given the following expression, what would be the scope of the variable x?

x = 5;

global

Incorrect

Question 9 0 / 10 pts

In JavaScript, a variable is a ______ that refers to a value in the program

reference

Incorrect

Question 10 0 / 10 pts

What does the following function print? _____

```
function print() {
  console.log(a);
  let a = 5;
}
```

error

Question 11 10 / 10 pts

//More information about the slice function

https://developer.mozilla.org/en-

<u>US/docs/Web/JavaScript/Reference/Global_Objects/String/slice</u>

(https://developer.mozilla.org/en-

US/docs/Web/JavaScript/Reference/Global Objects/String/slice)

```
var str = "This is a JavaScript string";
var res2=str.slice(-6);
console.log(res2);
What does the snippet print?
```

string

Question 12

Not yet graded / 10 pts

```
arr = [1,2,3,4,5];
Implement a function that returns a new array that contains only even
numbers
function even(arr) {
    // Your code is here.
}
or using function epxression
const even = (arr) => {
    //your code is here.
}
Hint: Use modulo operator (%) to check if a given number is even.

Your Answer:
function even(arr) {
    let newarr = [];
```

```
for(let i = 0; i <arr.length; i++){
    if(arr[i]%2 === 0){
        newarr.push(arr[i])
    }
}
return newarr;
}</pre>
```

var str = "This is a JavaScript string"; var res = str.substr(5, 2); console.log(res); What would be the value of the res variable? _______ is

Question 14

Not yet graded / 10 pts

Implement a function named **extractName** that extracts the first name and last name from a given name.

The function accepts a string and returns an array that stores the first then last name.

Assume that the given first and the last name is separated by a single white space.

You should test your function and it should pass the following two tests

Test cases:

console.log(extractName('John Doe'));

```
console.log(extractName('Mary Smith'));
return
[ 'John', 'Doe' ]
[ 'Mary', 'Smith' ]

Your Answer:
function extractName(name){
   return name.split(' ');
}
```

Question 15

Not yet graded / 10 pts

Given an array:

```
arr = [1,2,3,4,5,6,7,8,9]
```

Implement a function that randomizes the given array

```
Your Answer:
```

```
function shuffle(arr) {
  let max = arr.length -1;
  let newArr = [];
  for (let i = 0; i < arr.length; i++){
    let randNumber = Math.floor((max - i) * Math.random() + i);
    let temp = arr[i]
    arr[i] = arr[randNumber]</pre>
```

```
arr[randNumber] = temp
}
return arr;
}
```

Question 17

Not yet graded / 10 pts

Implement a function that accepts a string input and returns true or false

- a. if the string contains a vowel return true
- b. else return false

Function header

```
function containsVowels(str) {
  //your code is here
}

Test cases:
  str = 'hello';
  console.log(containsVowels(str)); // should print true;

str = 'mnht';
  console.log(containsVowels(str)); // should print false;
```

```
Hint: Vowels contain following letters a e i u o
Your Answer:
function containsVowels(str) {
  for(i=0; i<str.length; i++){</pre>
     if(str[i]==='a'|| str[i]==='e' || str[i]==='i'|| str[i]==='u' || str[i]==='o'){
        return true;
     }
  }
  return false;
  }
```

Question 18

Not yet graded / 10 pts

```
Given an array:
arr [1,2,3,4,5]
```

Implement a function that calculates an average value of the given array. This function will return an average value

function header

```
function average(arr) {
//your code is here
```

Your Answer:

```
function average(arr) {
  let sum = 0;
  for(let i=0; i<arr.length; i++){</pre>
     sum += arr[i];
   return sum/arr.length;
```

}

Incorrect

```
Question 19

What does the console print?_____
let fruits = ["Apple", "Orange"];
for (item in fruits) {
   item = "reset";
}
console.log(fruits);

['Apple', 'Orange']
```

Question 20

Not yet graded / 10 pts

Implement a function that prints 'Hello World' to the console. This function should be invoked immediately without a need to call it.

Your Answer: (function(){ console.log("Hello World") }());

Quiz Score: 110 out of 200