1) 1 point

What will be the output when the following code is executed? Explain.

const a = 1

const b = "1"

const c = true

console.log(a == b)

console.log(c == b)

console.log(c === b)

console.log(a == b === c)

Ans:

true

true

false

true

2) 1 point

What’s the output? Explain.

let number = 0;

console.log(number++);

console.log(++number);

console.log(number);

Ans:

0

2

2

3) 1 point

What will the code below output to the console and why ?

const object = {

'name': 'person',

'age': '24'

}

object.age = 40

console.log(object.age)

Ans: 40

4) 2 points

What’s the output? Explain.

class Dog {

constructor() {

console.log("I'm a dog.");

}

}

class Bulldog extends Dog {

constructor() {

console.log("I'm cute.");

super();

}

}

const pet = new Bulldog();

Ans:

“I’m cute”

“I’m a dog”

5) 5 points

What will be the output of this code and why?

var x = 21;

var girl = function () {

console.log(x);

var x = 20;

};

girl ();

Ans:

Undefined - (because of hoisting)

6) 5 points

What will be the output of the following code: (explain your answer)

for (var i = 1; i < 5; i++) {

setTimeout( () => console.log(i), i \* 100000 );

}

setTimeout( () => console.log(‘done’) );

Explain your answer. How could the use of closures help here?

Ans:

“done”

5

5

5

5

6) 5 points

What will be the output? Explain your answer.

const myPromise = () => Promise.resolve('I have resolved!');

const myOtherPromise = () => Promise.resolve('I have resolved again!')

function firstFunction() {

myPromise().then(res => console.log(res));

console.log('first');

}

async function second Function() {

console.log('second')

console.log(await myOtherPromise());

console.log('second and a half');

}

firstFunction();

secondFunction();

Ans:

* "first"
* "second"
* "I have resolved!"
* "I have resolved again!"
* "second and a half”

8) 1 point

What’s the output, and why?

class Person {

constructor(name) {

this.name = name;

}

}

const member = new Person('John');

console.log(typeof member);

Ans:

“object”

9) 3 points

What do the following lines output, and why?

// counter.js

let counter = 10;

export default counter;

// index.js

import myCounter from './counter';

myCounter += 1;

console.log(myCounter);

Ans:

Error

7) 2 points

What is the value of:

typeof undefined == typeof NULL

Ans:

true