Oefenopgaven Intermediate JavaScript Programming Techniques 5

Vraag 1 van 23

In JavaScript, which term is used to describe a special function that enables you to create instances of custom objects?

A. Constructor.

B. Client-side array.

C. Property.

D. Method.

Vraag 2 van 23

Consider the following code block:

```
function vehicle(wheels, brand) {
            this.wheels = wheels;
            this.brand = brand;
        }
        var v1 = vehicle(4, "BMW");
        document.write(v1);
```

What will be the output of this code block?

A. `[object Object]`

B. undefined

C. 4, BMW

D. `Vehicle1(wheels, brand) {`
   `this.wheels = wheels;`
   `this.brand = brand;`
    `}`

Vraag 3 van 23

Which statement about the prototype property is true?

A. It is only available in JavaScript predefined objects.

B. It is only available in custom objects.

C. It is only available in DOM objects.

D. It is available in every JavaScript object.

Vraag 4 van 23

Which of the following statements about inheritance in JavaScript is true?

A. JavaScript supports both prototypal and class-based inheritance.

B. JavaScript supports only class-based inheritance.

C. Prototype-based inheritance is an example of class-based inheritance.

D. A class can inherit the properties of another class using the extend keyword.

Vraag 5 van 23

Consider the following code. Which element represents the iterable?

```
function* sample() {
            var x = 0;
            while(true)
            yield x++;
            }
            var example = sample();
```

A. x

B. sample

C. example

D. yield

Vraag 6 van 23

What is the purpose of the yield operator in the generator functions?

A. To pause or resume a generator function.

B. To throw an exception from the generator.

C. To return the next item in the sequence.

D. To return a generator object.

Vraag 7 van 23

In a custom JavaScript object, how does a method access the properties of an instance of the custom object when it is called?

A. By using the this keyword.

B. By passing in a reference to the instance as a parameter.

C. By directly accessing the properties by their names.

D. By using the element keyword.

Vraag 8 van 23

Consider the following code block:

```
var car1 = {
      name: "BMW",
      model: "i8",
      display: function() {
          return this.name + this.model;
      }
  }
 var newCar = {
      name: "Audi",
      model: "A8"
  }
  document.write(car1.display.call(newCar));
```

What will be the output of this code block?

A. BMWi8

B. AudiA8

C. BMWi8AudiA8

D. ReferenceError

Vraag 9 van 23
Which property is used to add additional fields to a custom object?

A. prototype

B. addField

C. addNew

D. new

Vraag 10 van 23
When creating a custom object in JavaScript, what is instantiation?

A. The process of creating new copies of an object.

B. The process of defining a constructor.

C. The process of defining properties and methods of a custom object.

D. The process of returning specific method parameters to the calling statement.

Vraag 11 van 23
What is the purpose of the **yield** operator in the following code block?

```
function* genId() {
        var id = 0;
        while(true)
        yield id++;
        }
        var gen = genId();
```

A. Pauses the generator function.

B. Continues with the next iteration of the while block.

C. Specifies that the genId() function is a generator function.

D. Increments the value of the id variable.

Consider the following code block:

```
class Example { // class declaration
              _____(test) {
                   this.test = test;
              }
              display() {
                   document.write('This is a sample.');
              }
         }
```

Identify the missing keyword.

A. this

B. super

C. constructor

D. example

Which of the following functions is declared using the function* keyword and returns iterable objects?

A. class

B. generator

C. constructor

D. iterator

Which object can access items in a collection, one at a time?

A. Class

B. Generator

C. Constructor

D. Iterator

What will be the output of the following code block?

```
var v1 = new Vehicle1(4, "BMW");
            class Vehicle1 {
              constructor(wheels, brand) {
                  this.wheels = wheels;
                  this.brand = brand;
              }
            }
            document.write(v1.wheels + v1.brand);
```

A. undefined

B. [object Object]

C. 4BMW

D. ReferenceError

What does a constructor do?

A. Creates an empty template from which real-time objects, called instances, can be generated.

B. Creates a database-like structure into which you can store custom objects.

C. Creates an instance of a custom object, and a new constructor is needed for each instance.

D. Creates properties and methods that can be passed into custom objects.

What is inheritance?

A. Calling a function inside another function.

B. Deriving the state and behavior of another object.

C. Creating and initializing objects.

D. Assigning the values of one object to another.

What is the term for a JavaScript function used to create a custom object?

A. Constructor.

B. Initializer.

C. New.

D. Loader.

Vraag 19 van 23

The following code is part of a constructor function. If methodName is a function that is defined later in the code, what is the difference between the following expressions?

```
// First expression
            this.methodName = methodName;
// Second expression
            this.methodName = methodName();
```

A. There is no difference in the first and the second expression.

B. The first expression identifies methodName as a variable, not a function.

C. The second expression is invalid and will generate a syntax error.

D. The second expression will result in a function call as soon as an object of the constructor function is created.

Vraag 20 van 23

Which JavaScript keyword is used to access the functions of the parent object?

A. constructor

B. this

C. super

D. new

Vraag 21 van 23

Which of the following statements is true of constructors in JavaScript?

A. JavaScript classes do not need a constructor.

B. For each class, at most, one constructor can be defined.

C. Constructors are defined using the function keyword but have a name similar to that of the class.

D. Constructors are only needed when objects of a class are created without the new keyword.

Consider the following code block:

```
class Example { // class declaration
        constructor(test) {
            this.test = test;
        }
        display() {
            document.write('This is a sample.');
        }
    }
        class Sample extends Example {
        constructor(test) {
                _____(test); // Missing keyword
        }
        display() {
            document.write('This is a sample.');
        }
    }
```

Which of the following keywords should be added in the above code?

A. this

B. super

C. constructor

D. example

What is the first step in creating a custom object in JavaScript?

A. Defining a constructor.

B. Creating a property.

C. Naming property values.

D. Creating a method.