

Self-Assessment Quiz – Functions

1. What is a function in JavaScript?

- A named container for a block of code that can be executed when called
- A data type that represents a sequence of characters
- A way to define a variable
- A type of loop

Explanation: A function in JavaScript is a named container for a block of code that can be executed when called.

2. What is the correct syntax for declaring a function in JavaScript?

- `function = myFunction() {}`
- `function: myFunction() {}`
- **`function myFunction() {}`**
- `myFunction(): function {}`

3. How do you call (invoke) a function named "myFunction"?

- `call myFunction();`
- **`myFunction();`**
- `execute myFunction();`
- `invoke myFunction();`

4. What will the following code output to the console?

```
function sayHello() {  
  console.log('Hello');  
}
```

```
sayHello();  
sayHello;
```

- 'Hello' twice
- 'Hello' followed by the function definition of sayHello
- **'Hello' only once**
- An error

Explanation: The function sayHello is called only once. The second time, it's merely referenced, not called.

5. What is the purpose of parameters in a JavaScript function?

- To specify the return value of the function
- To store values within the function
- To define the function's name
- **To pass values into the function**

Explanation: Parameters in a JavaScript function allow you to pass values into the function, which can then be used within the function's code.

6. What is an arrow function in JavaScript?

- **A function that uses the arrow syntax (=>)**
- A type of loop in JavaScript
- A function that returns multiple values
- A function with no parameters

Explanation: An arrow function in JavaScript is a function that uses the arrow syntax (=>) to define its body. It is a concise way to write functions in JavaScript.

7. What is the concept of variable scope in functions?

- It refers to the lifetime of a variable in a program
- **It determines the availability of a variable in different parts of the code**
- It defines the order in which the variables are executed
- It refers to the type of data that can be stored in a variable

Explanation: Variable scope in functions determines the availability of a variable in different parts of the code. Variables can have global scope, function scope, or block scope.

8. Which of the following terms refer to the value(s) returned by a function?

- Parameters
- Arguments
- **Return value**
- Variable scope

9. What is a nested function in JavaScript?

- **A function that is defined inside another function**
- A function that has no parameters
- A function that returns multiple values
- A function that uses the arrow syntax (=>)

Explanation: A nested function can have parameters.

10. True or False: The return value of a function is optional.

- **True**
- False

Explanation: In JavaScript, a function can have a return statement that specifies the value(s) to be returned. If a function does not have a return statement, it will return undefined by default.