



Competency Test - Introduction to JavaScript Programming

Below is a scored review of your assessment. All questions are shown.



Correct Answer



Partially Correct



Incorrect Answer

1 What are some popular JavaScript frameworks?

Your Answer Angular, React, Vue.js

Correct Answer Angular, React, Vue.js

Explanation

Angular, React, and Vue.js are some of the most popular JavaScript frameworks used for building user interfaces and managing state in web applications.

2 What is the result of the following expression?

```
let x = 10;  
x %= 3;  
console.log(x);
```

Your Answer 1

Correct Answer 1

Explanation

The `%=` operator performs the modulus operation on the variable on the left-hand side with the value on the right-hand side and assigns the result to the variable. In this case, `x %= 3` is equivalent to `x = x % 3`, which results in `x` being assigned the value of 1.

3

What is the result of the following expression?

```
console.log(5 == "5");
```

Your Answer

True

Correct Answer

True

Explanation

In JavaScript, the double equals (==) operator performs loose equality comparison between two operands. When the operands are of different types, JavaScript automatically coerces one or both of the operands to a common type before performing the comparison. In this case, the string "5" is coerced to the number 5, and 5 equals 5.

4 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

Variable hoisting in JavaScript is a behavior where variable declarations are moved to the top of their respective scopes during the execution phase, before the actual code execution takes place. This means that you can access and use a variable before it's formally declared in the code.

5 Which of the following is the function of the `console.log()` method in JavaScript?

Your Answer To print output to the console

Correct Answer To print output to the console

Explanation

The `console.log()` method in JavaScript is used to print or log messages to the console. It is a built-in method that allows developers to output information to the browser console or terminal window.

6 Which of the following is true about the `||` operator in JavaScript?

Your Answer It returns true if at least one operand is true.

Correct Answer It returns true if at least one operand is true.

Explanation

In JavaScript, the `||` operator returns true if at least one of its operands is true, and false otherwise

7 What is a JavaScript framework?

Your Answer Tested tools for building scalable, interactive web applications

Correct Answer Tested tools for building scalable, interactive web applications

Explanation

JavaScript frameworks are an essential part of modern front-end web development, providing developers with tried and tested tools for building scalable, interactive web applications.

8 Which of the following is not a programming language?

Your Answer MySQL

Correct Answer MySQL

Explanation

MySQL is not a programming language, but a database management system. It is used to manage relational databases and query data stored in them.

9 What is server-side rendering in JavaScript and how does it differ from client-side rendering?

Your Answer

Server-side rendering involves generating HTML markup on the server and sending it to the client, while client-side rendering involves generating HTML markup on the client using JavaScript.

Correct Answer

Server-side rendering involves generating HTML markup on the server and sending it to the client, while client-side rendering involves generating HTML markup on the client using JavaScript.

Explanation

Server-side rendering involves generating HTML markup on the server and sending it to the client, while client-side rendering involves generating HTML markup on the client using JavaScript.

10 What is the typeof value returned by the unary operator when its operand is NULL?

Your Answer Object

Correct Answer Object

Explanation

When the operand of a unary operator is NULL, the typeof operator will return the string "object". This is because in JavaScript, NULL is considered an empty object reference, rather than a primitive data type.

11 What are JavaScript comments?

Your Answer Text that is ignored by the browser

Correct Answer Text that is ignored by the browser

Explanation

Text that is ignored by the browser. JavaScript comments are pieces of text that are added to the code to provide information about the code without affecting its execution. Comments are ignored by the browser and are not displayed on the web page.

12

What is the difference between var, let, and const in JavaScript?

Your Answer

var is used for function-scoped variables, let is used for block-scoped variables, and const is used for constants.

Correct Answer

var is used for function-scoped variables, let is used for block-scoped variables, and const is used for constants.

Explanation

"var" is function-scoped, allows redeclaration, and is hoisted. "let" is block-scoped, doesn't allow redeclaration, and is hoisted within the block. "const" is block-scoped, doesn't allow reassignment after initialization.

13

What is the result of the following expression?

```
console.log("hello" > "world");
```

Your Answer

False

Correct Answer

False

Explanation

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.

14 Which of the following is an example of a Exponentiation assignment operator in JavaScript?

Your Answer `**==`

Correct Answer `**=`

Explanation

`**=` is the Exponentiation Assignment operator

15 What is a best practice for implementing client-side rendering in JavaScript?

Your Answer Keep JavaScript code separate from HTML markup

Correct Answer Keep JavaScript code separate from HTML markup

Explanation

A best practice for implementing client-side rendering in JavaScript is to keep the JavaScript code separate from the HTML markup using a modular architecture, such as the Model-View-Controller (MVC) pattern. This can make the code easier to maintain and scale.

16

Which of the following programming paradigms focuses on the use of rules and constraints to describe a problem domain?

Your Answer

Constraints Programming

Correct Answer

Logical Programming

Explanation

Logic programming is a programming paradigm that is based on the use of rules and constraints to describe a problem domain. It uses logical inference to derive new facts from existing ones, and is often used in artificial intelligence and expert systems.

17 Can you identify a well-known package manager for JavaScript among the following options?

Your Answer npm

Correct Answer npm

Explanation

NPM (short for Node Package Manager) is a well-known package manager for JavaScript. It is a command-line utility that is used to install, manage, and share packages (i.e., reusable code) for JavaScript projects.

18 Which of the following is a primitive data type in JavaScript?

Your Answer String

Correct Answer String

Explanation

Primitive data types in JavaScript include Boolean, null, number, string, undefined, and symbol. Objects, arrays, and dates are not primitive data types.

19 What is the commonly used programming language for developing Android applications?

Your Answer Kotlin

Correct Answer Kotlin

Explanation

The commonly used programming language for developing Android applications is Kotlin. While Java used to be the primary language for Android app development, Kotlin gained popularity and became an officially supported language by Google for Android development in 2017.

20

What is the result of the following expression?

```
console.log(10 / "5");
```

Your Answer 2

Correct Answer 2

Explanation

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.

Summary

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