**1. What is JavaScript?**

JavaScript is a client-side as well as server side scripting language that can be inserted into HTML pages and is understood by web browsers.

JavaScript is also an Object dependent Programming language

**2. Enumerate the differences between Java and JavaScript?**

Java is a complete programming language.

JavaScript is a coded program that can be introduced to HTML pages.

 Java is an object – oriented programming (OOPS) or structured programming language like C++ or C

whereas JavaScript is a client-side scripting language and it is said to be unstructured programming.

**3. What are JavaScript types?**

JavaScript data types can generally be divided into two categories

- primitives and objects.

- Primitives represent the most basic types of data supported by a language.

In JavaScript, the primitive data types are Undefined, Null, Boolean, Number, and String.

Objects, on the other hand, are composite data types. Each object is a collection of primitives and other objects.

Following are the JavaScript types:

* Number
* String
* Boolean
* Function
* Object
* Null
* Undefined

**4. What is the use of isNaN function?**

isNan  (not a number) function returns true if the argument is not a number otherwise it is false.

**Return Value**

// Returns false.

isNaN(100);

isNaN("100");

// Returns true.

isNaN("ABC");

isNaN("10C");

isNaN("abc123");

// Returns true.

isNaN(Math.sqrt(-1));

**5. Which company developed JavaScript?**

Netscape is the software company who developed JavaScript.

**6. Between JavaScript and an ASP script, which is faster?**

JavaScript is faster.

JavaScript is a client-side language and thus it does not need the assistance of the web server to execute.

On the other hand, ASP is a server-side language and hence is always slower than JavaScript.

 Javascript now is also a server side language (nodejs).

**7. What is negative infinity?**

Negative Infinity is a number in JavaScript which can be derived by dividing negative number by zero.

**8. What are undeclared and undefined variables?**

Undeclared variables are those that do not exist in a program and are not declared. If the program tries to read the value of an undeclared variable, then a runtime error is encountered.

Undefined variables are those that are declared in the program but have not been given any value. If the program tries to read the value of an undefined variable, an undefined value is returned.

**9. What are global variables? How are these variable declared and what are the problems associated with using them?**

Global variables are those that are available throughout the length of the code, that is, these have no scope. The var keyword is used to declare a local variable or object. If the var keyword is omitted, a global variable is declared.

Example:

// Declare a global globalVariable = “Test”;

The problems that are faced by using global variables are the clash of variable names of local and global scope. Also, it is difficult to debug and test the code that relies on global variables.

**12. What is a prompt box?**

A prompt box is a box which allows the user to enter input by providing a text box.  Label and box will be provided to enter the text or number.

**13. What is ‘this’ keyword in JavaScript?**

‘This’ keyword refers to the object from where it was called.

**14. Explain the working of timers in JavaScript? Also elucidate the drawbacks of using the timer, if any?**

Timers are used to execute a piece of code at a set time or also to repeat the code in a given interval of time. This is done by using the functions **setTimeout, setInterval**and**clearInterval**.

The **setTimeout(function, delay)** function is used to start a timer that calls a particular function after the mentioned delay.

The **setInterval(function, delay)** function is used to repeatedly execute the given function in the mentioned delay and only halts when cancelled.

The **clearInterval(id)** function instructs the timer to stop.

Timers are operated within a single thread, and thus events might queue up, waiting to be executed.

**15. Which symbol is used for comments in Javascript?**

// for Single line comments and

/\*   open Multi Comment

Line1

Line2

\*/ Closing Multi Comment

**16. What is the difference between ViewState and SessionState?**

‘ViewState’ is specific to a page in a session.

‘SessionState’ is specific to user specific data that can be accessed across all pages in the web application.

**17. What is === operator?**

=== is called as strict equality operator which returns true when the two operands are having the same value without any type conversion.

**19. Does JavaScript support automatic type conversion?**

Yes JavaScript does support automatic type conversion, it is the common way of type conversion used by JavaScript developers

**21. Explain how to read and write a file using JavaScript?**

There are two ways to read and write a file using JavaScript

* Using JavaScript extensions
* Using a web page and Active X objects

**22. What are all the looping structures in JavaScript?**

Following are looping structures in Javascript:

* For
* While
* do-while loops

**23. What is called Variable typing in Javascript?**

Variable typing is used to assign a number to a variable and the same variable can be assigned to a string.

Example



|  |  |
| --- | --- |
| 1  2  3 | i = 10;    i = "string"; |

This is called variable typing.

**25. Explain the difference between “==” and “===”?**

“==” checks only for equality in value whereas “===” is a stricter equality test and returns false if either the value or the type of the two variables are different.

**26. What would be the result of 3+2+”7″?**

Since 3 and 2 are integers, they will be added numerically. And since 7 is a string, its concatenation will be done. So the result would be 57.

**27. Explain how to detect the operating system on the client machine?**

In order to detect the operating system on the client machine, the navigator.appVersion string (property) should be used.

**28. What do mean by NULL in Javascript?**

The NULL value is used to represent no value or no object.  It implies no object or null string, no valid boolean value, no number and no array object.

**29. What is the function of delete operator?**

The functionality of delete operator is used to delete all variables and objects in a program but it cannot delete variables declared with VAR keyword.

**30. What is an undefined value in JavaScript?**

Undefined value means the

* Variable used in the code doesn’t exist
* Variable is not assigned to any value
* Property doesn’t exist

**31. What are all the types of Pop up boxes available in JavaScript?**

* Alert
* Confirm and
* Prompt

**32. What is the use of Void(0)?**

Void(0) is used to prevent the page from refreshing and parameter “zero” is passed while calling.

Void(0) is used to call another method without refreshing the page.

**33. How can a page be forced to load another page in JavaScript?**

The following code has to be inserted to achieve the desired effect:



|  |  |
| --- | --- |
| 1  2  3 | <script language="JavaScript" type="text/javascript" >    <!-- location.href="http://newhost/newpath/newfile.html"; //--></script> |

**34. What is the data type of variables of in JavaScript?**

All variables in the JavaScript are object data types.