1). What is JavaScript?

2). What are the data types supported by JavaScript?

3). What are the features of JavaScript?

4). What are the advantages of JavaScript?

5). What is the difference between JavaScript & TypeScript ?

6). What do we mean by a language being case sensitive? Is JavaScript case sensitive?

7). How can you create an object in JavaScript?

8). How can you create an Array in JavaScript?

9). What is a named function in JavaScript & how to define it?

10). Can you assign an anonymous function to a variable and pass it as an argument to another function?

11)What is argument objects in JavaScript & how to get the type of arguments passed to a function?

12). What are the scopes of a variable in JavaScript?

13). What is the purpose of 'This' operator in JavaScript?

14). What is Callback in JavaScript?

15). What is Closure? Give an example.

16). Name some of the built-in methods and the values returned by them.

17). What are the variable naming conventions in JavaScript?

18). How does TypeOf Operator work?

19). How to create a cookie using JavaScript?

20). How to delete a cookie using JavaScript?

21). What is the difference between Attributes and Property?

22). List out the different ways an HTML element can be accessed in a JavaScript code.

23). In how many ways a JavaScript code can be involved in an HTML file?

24). What are the ways to define a variable in JavaScript?

25). What is a Typed language?

26). What is the difference between Local storage & Session storage?

27). What is the difference between the operators '==' & '==='?

28). What is the difference between null & undefined?

29). What is the difference between undeclared & undefined?

30). Name the three major JavaScript front-end Frameworks.

31). What is the difference between window & document in JavaScript?

32). What is the difference between innerHTML & innerText?

33). What is NaN in JavaScript?

34). How do JavaScript primitive/object types passed in functions?

35). What is an event bubbling in JavaScript?

36).How can you convert the string of any base to integer in JavaScript?

37). What would be the result of 2+5+"3"?

38). What are Exports & Imports in JavaScript ?

39). What is the 'Strict' mode in JavaScript and how can it be enabled?

40). What is a prompt box in JavaScript?

41). What will be the output of the code below?

```
var Y = 1;

    if (function F(){})
        {
            y += Typeof F;</span>
        }
console.log(y);
```

42).What is the difference between Call & Apply?

43). How to empty an Array in JavaScript?

44). What will be the output of the following code?

```
var Output = (function(x)
        {
            Delete X;
                return X;
        }
         )(0);
console.log(output);
```

45). What will be the output of the following code?

```
var X = { Foo : 1};
    var Output = (function()
        {
            delete X.foo;
            return X.foo;
        }
  )();
console.log(output);
```

46). What will be the output of the following code?

```
var Employee =
    {
        company: 'xyz'
    }
        var Emp1 = Object.create(employee);
delete Emp1.company Console.log(emp1.company);
```

47). What will be the output of the code below?

```
//nfe (named function expression)
var Foo = Function Bar()
    {
        return 7;
    };
typeof Bar();
```

48). What is the reason for wrapping the entire content of a JavaScript source file in a function block?

49). What are escape characters in JavaScript?

50). Write a function nor that takes two Boolean values. If both values are false, the result should be true. In the other cases the return should be false.
I.e.: The call nor(false, false) should return true. The calls nor(true, false), nor(false, true) and nor(true, true) should return false.

51). Write a function isEven that checks if a passed number is even. If the given number is even, true should be returned, otherwise false.
Example: isEven(2) should return true and isEven(3) should return

52). Write a function gcd that takes two natural numbers and calculates their gcd.
Example: gcd(6, 15) should return 3.

53). Define a function hello that returns 'Hello world!'.

54) Discuss possible ways to write a function isInteger(x that determines if x is an integer.

55). Write a simple function (less than 160 characters) that returns a boolean indicating whether or not a string is a palindrome.

56). What is the value of typeof undefined == typeof NULL?

57). What would following code return?

console.log(typeof typeof 1);

58). Write a JavaScript program to display the current day and time in the following format.

Sample Output : Today is : Tuesday.
Current time is : 10 PM : 30 : 38

59). Write a JavaScript program to find the area of a triangle where lengths of the three of its sides are 5, 6, 7.

60). Write a JavaScript program to rotate the string 'LuxAcademy' in right direction by periodically removing one letter from the end of the string and attaching it to the front.

61). Write a JavaScript program to find 1st January is being a Sunday between 2014 and 2050.

62). Write a JavaScript program to check whether there is at least one element which occurs in two given sorted arrays of integers.

63). Write a JavaScript program to create the value of NOR of two given booleans.

64). Write a JavaScript program to find all distinct prime factors of a given integer.

65). Write a JavaScript program to simplify a given absolute path for a file in Unix-style.

66). Write a JavaScript program to run a function in a separate thread by using a Web Worker, allowing long running functions to not block the UI.

67). Write a JavaScript program to redirect to a specified URL.

68). Write a JavaScript program to get an array of lines from the specified file.

69). Write a JavaScript program to mutate the original array to filter out the values specified. Returns the removed elements.

70). What are some of the features of ES6?

71). What is let and const? And how it differs from var?

72). What is Arrow function? What are all its uses? How it differs from normal function?

73). What are all the new changes in Object literal notations in ES6?

74). What is WeakMap in ES6?

75). What is Set?

76). What is Class expression?

77). What is Generator function?

78). What is WeakSet?

79). Discuss the major Data Structures inn JavaScript.

80). Discuss with examples Inheritance, Polymorphism and Code Reuse.

All the Best, Lux Academy.