**Quiz**

1.What will be the output of the following code?

console.log(2 + "2");

a) 4  
b) 22  
c) "22"  
d) NaN

Answer: c) "22"

2. What is the purpose of the `let` keyword in JavaScript?

a) Declares a variable with block scope  
b) Declares a constant variable  
c) Declares a variable with function scope  
d) Declares a variable with global scope

Answer: a) Declares a variable with block scope

3. What is the result of the expression 4 + 5 + "7"?

a) 16  
b) "97"  
c) 16 + "7"  
d) 9 + "7"

Answer: c) "167"

4. What does the `typeof` operator return for the `null` value?

a) "undefined"  
b) "null"  
c) "object"  
d) "number"

Answer: c) "object"

5. How do you create a new array in JavaScript?

a) new Array()  
b) []  
c) Array()  
d) {}

Answer: b) []

6. What will be the output of the following code?

const x = 5;

console.log(x++ + ++x);

a) 11  
b) 12  
c) 13  
d) 14

Answer: c) 13

7. How can you check if a variable is an array?

a) Using typeof  
b) Using Array.isArray()  
c) Using instanceof Array  
d) All of the above

Answer: b) Using Array.isArray()

8. What does the `map` function do in JavaScript?

a) Modifies elements of an array in place  
b) Creates a new array with the results of calling a provided function on every element  
c) Concatenates two arrays  
d) Removes elements from an array

Answer: b) Creates a new array with the results of calling a provided function on every element

9. What is the purpose of the `event.stopPropagation()` method?

a) Prevents the default action of an event  
b) Stops the event from bubbling up or down the DOM hierarchy  
c) Halts the execution of the event handler  
d) Triggers the event explicitly

Answer: b) Stops the event from bubbling up or down the DOM hierarchy

10. How do you declare a function in JavaScript?

a) function myFunction(){}  
b) var myFunction = function(){}  
c) const myFunction = () => {}  
d) All of the above

Answer: d) All of the above

11. What is the difference between `==` and `===` in JavaScript?

a) Both are strict equality operators  
b) == performs type coercion, while === does not  
c) === performs type coercion, while == does not  
d) There is no difference

Answer: b) == performs type coercion, while === does not

12. How do you remove the last element from an array?

a) arr.removeLast()  
b) arr.pop()  
c) arr.splice(-1, 1)  
d) arr.slice(-1)

Answer: b) arr.pop()

13. What is the purpose of the `this` keyword in JavaScript?

a) Refers to the current function  
b) Refers to the global object  
c) Refers to the object that is executing the current function  
d) Refers to the prototype object

Answer: c) Refers to the object that is executing the current function

14. What is the difference between `let` and `var` in terms of scope?

a) Both have block scope  
b) let has block scope, while var has function scope  
c) let has function scope, while var has block scope  
d) Both have global scope

Answer: b) let has block scope, while var has function scope

15. What will be the output of the following code?

console.log(1 + "1" - 1);

a) "10"  
b) 10  
c) 11  
d) 0

Answer: d) 0

16. What is the purpose of the `bind` method in JavaScript?

a) Binds a function to an event  
b) Binds a function to a specific object, allowing this to be set  
c) Binds a function to a variable  
d) Binds a function to the global object

Answer: b) Binds a function to a specific object, allowing this to be set

17. How do you check if a variable is defined in JavaScript?

a) Using typeof  
b) Using undefined  
c) Using isNull()  
d) All of the above

Answer: d) All of the above

18. What is the purpose of the `querySelector` method in JavaScript?

a) Selects the first element with a specified class name  
b) Selects the first element with a specified tag name  
c) Selects the first element that matches a specified CSS selector  
d) Selects all elements with a specified class name

Answer: c) Selects the first element that matches a specified CSS selector

19.What does the `JSON.stringify()` method do in JavaScript?

a) Parses a JSON string  
b) Converts a JavaScript object to a JSON string  
c) Converts a JSON string to a JavaScript object  
d) Compares two JSON objects

Answer: b) Converts a JavaScript object to a JSON string

20. What is the purpose of the `try...catch` statement in JavaScript?

a) Tries to execute a block of code, and if an error occurs, catches it and executes a specified block of code  
b) Exits a loop if a specified condition is true  
c) Declares a new variable within a specific scope  
d) Creates a new function

Answer: a) Tries to execute a block of code, and if an error occurs, catches it and executes a specified block of code