# **JavaScript Refresher Quiz (30 Questions with Explanations)**

### 1. What is the output of this code?

## console.log(typeof null);

- a) 'null'
- b) 'object'
- c) 'undefined'
- d) Error

Correct Answer: b) 'object'

Explanation: In JavaScript, typeof null returns 'object' due to a historical bug retained for backward compatibility.

#### 2. What will be printed?

# let a = [1, 2]; let b = a; b.push(3); console.log(a);

- a) [1, 2]
- b) [1, 2, 3]
- c) undefined
- d) Error

Correct Answer: b) [1, 2, 3]

Explanation: Arrays are reference types. Assigning 'b = a' means they point to the same memory.

## 3. What is the output?

## console.log(1 + '1' - 1);

- a) '10'
- b) 10
- c) 11
- d) NaN

Correct Answer: b) 10

Explanation: 1 + '1' = '11'; then '11' - 1 coerces '11' to number -> 11 - 1 = 10.

### 4. What is printed by this code?

```
setTimeout(() => console.log('A'), 0);
```

## console.log('B');

- a) B then A
- b) A then B
- c) Error
- d) Undefined

Correct Answer: a) B then A

Explanation: setTimeout is asynchronous and scheduled after the current call stack, so 'B' logs first.

## 5. What will this log?

```
console.log(2 == '2');
```

console.log(2 === '2');

```
a) true false
 b) false true
 c) true true
 d) false false
 Correct Answer: a) true false
 Explanation: '==' allows coercion, '===' checks both type and value.
6. What happens when you run this?
const x;
x = 10;
 a) 10 is assigned
 b) Error
 c) undefined
 d) null
 Correct Answer: b) Error
 Explanation: const requires a value at declaration time this throws a SyntaxError.
7. What does this return?
[1, 2, 3].map(n => \{ if (n > 1) return; \});
 a) [undefined, undefined, undefined]
 b) [false, true, true]
 c) [1, 2]
 d) Error
 Correct Answer: a) [undefined, undefined, undefined]
 Explanation: No return value is returned explicitly from the callback undefined is default.
8. What is the result of this code?
let x = 10; function test() { console.log(x); let x = 5; } test();
 a) 10
 b) 5
 c) ReferenceError
 d) undefined
 Correct Answer: c) ReferenceError
 Explanation: 'let' is not hoisted like 'var' and lives in the temporal dead zone.
9. What is the output?
function outer() { let count = 0; return function inner() { count++; return count; } }
const fn = outer();
console.log(fn());
console.log(fn());
 a) 1 and 1
 b) 1 and 2
 c) 0 and 1
```

d) Error

Correct Answer: b) 1 and 2

Explanation: Closures allow 'fn' to retain access to 'count' even after 'outer' has returned.

#### 10. What is the result?

## console.log([] + []);

- a) "
- b) []
- c) undefined
- d) Error

Correct Answer: a) "

Explanation: [] is coerced to ", and " + " results in an empty string.

## 11. What does typeof [] return?

- a) 'array'
- b) 'object'
- c) 'list'
- d) 'undefined'

Correct Answer: b) 'object'

Explanation: Arrays are technically objects in JavaScript, hence typeof [] is 'object'.

## 12. What does this log?

## const obj = { name: 'Ali', greet: () => console.log(this.name) }; obj.greet();

- a) 'Ali'
- b) undefined
- c) Error
- d) 'this.name'

Correct Answer: b) undefined

Explanation: Arrow functions dont bind their own 'this'; 'this.name' refers to the global object.

## 13. console.log('5' + 1); console.log('5' - 1);

- a) 6 and 4
- b) '51' and 4
- c) '6' and NaN
- d) 5 and 4

Correct Answer: b) '51' and 4

Explanation: 5' + 1 = 51'; 5' - 1 = 4 due to coercion.

### 14. [1,2,3].filter(n => n % 2 === 0);

- a) [1,3]
- b) [2]
- c) [1,2,3]
- d) []

Correct Answer: b) [2]

Explanation: Only 2 is even it matches the filter condition.

## 15. Which of the following is falsy?

- a) 'false'
- b) '0'
- c) 0
- d) []

Correct Answer: c) 0

Explanation: Only the numeric 0 is falsy; the others are truthy values.

## 16. Which keyword defines a block-scoped constant?

- a) var
- b) let
- c) const
- d) define

Correct Answer: c) const

Explanation: 'const' creates a block-scoped, immutable binding.

## 17. Which is not a valid data type?

- a) string
- b) number
- c) character
- d) object

Correct Answer: c) character

Explanation: JavaScript has no 'character' type it uses strings for characters.

## 18. Which method modifies the original array?

- a) push
- b) map
- c) filter
- d) slice

Correct Answer: a) push

Explanation: 'push' appends items to the original array.

#### 19. What does === check?

- a) Value
- b) Type
- c) Value and type
- d) Type coercion

Correct Answer: c) Value and type

Explanation: === checks both value and type with no coercion.

## 20. JSON.stringify({ a: 1 }) returns:

- a) {a:1}
- b) [object Object]
- c) '{"a":1}'
- d) null

Correct Answer: c) '{"a":1}'

Explanation: It returns a JSON-formatted string representation of the object.

## 21. typeof NaN is:

- a) 'NaN'
- b) 'number'
- c) 'undefined'
- d) 'object'

Correct Answer: b) 'number'

Explanation: Although NaN means 'Not a Number', its type is 'number'.

## 22. Array.isArray([]) returns:

- a) false
- b) true
- c) undefined
- d) error

Correct Answer: b) true

Explanation: Array.isArray checks if the value is an array.

## $23. \ 0.1 + 0.2 === 0.3$ ?

- a) true
- b) false
- c) NaN
- d) undefined

Correct Answer: b) false

Explanation: Floating point precision makes 0.1 + 0.2 slightly off from 0.3.

## 24. Which adds to the end of an array?

- a) unshift
- b) concat
- c) push
- d) pop

Correct Answer: c) push

Explanation: 'push' appends elements to the end of an array.

#### 25. !!'text' returns:

- a) true
- b) false
- c) 'text'
- d) undefined

Correct Answer: a) true

Explanation: !! forces a truthy/falsy conversion non-empty strings are truthy.

## 26. typeof function(){} is:

- a) object
- b) function
- c) undefined
- d) null

```
Correct Answer: b) function
 Explanation: Functions have a specific typeof return 'function'.
27. console.log(0 == false); console.log(0 === false);
 a) true true
 b) false true
 c) true false
 d) false false
 Correct Answer: c) true false
 Explanation: '0 == false' because of coercion; '0 === false' is false due to type.
28. console.log('5' - - '2');
 a) 7
 b) NaN
 c) 3
 d) Error
 Correct Answer: a) 7
 Explanation: '5' and '2' are coerced to numbers; minus negative = plus.
29. setTimeout behavior?
 a) Blocks the thread
 b) Runs immediately
 c) Runs after delay
 d) Runs first
 Correct Answer: c) Runs after delay
 Explanation: setTimeout schedules the task after the current stack and delay.
30. What is the nullish coalescing operator?
 a) &&
 b) ||
 c) ??
 d) ?:
 Correct Answer: c) ??
 Explanation: The '??' operator returns the right-hand value if the left-hand side is null or undefined.
31. What happens here?
async function test() {
 try {
  await Promise.reject('Error!');
 } catch (e) {
  console.log('Caught');
 } finally {
  console.log('Finally');
 }
```

}

- a) Error
- b) Caught
- c) Caught + Finally
- d) Nothing

Correct Answer: c) Caught + Finally

Explanation: The rejection is caught, and then the finally block runs. So it logs 'Caught' and 'Finally'.