# JavaScript Quiz

## Variables and Operators

1. What is the output of the following code?

```
let a = 1;
let b = 0;
while ( a <= 3 ) {
    a++;
    b += a * 2;
}
console.log ( b );
```

(a) 10    ans - 18

(b) 12

(c) 14

(d) 16

2. What does the following code output?

```
let x = 0;
let y = '0';
console.log ( x == y , x === y );
```

(a) true false ●

(b) false true

(c) true true

(d) false false

3. Given the following code, what is the value of x after execution?

```
let x = 3;
x += ( x *= 2 );
```

(a) 6

(b) 9

(c) 12 ●

(d) 15

## Control Statements

4. What will the following code output?

```
for ( let i = 0 ; i < 3 ; i++ ) {
    setTimeout ( ( ) => console . log ( i ) , 1 0 0 0 ); }
```

(a) 0 1 2 🟢

(b) 3 3 3

(c) 0 1 2 3

(d) undefined undefined undefined

5. What is the output of this code?

```
let x = 1 0;
if ( x = 5 ) {
    console . log ( x );
} else {
    console . log ( x * 2 );
}
```

(a) 5 🟢

(b) 10

(c) 20

(d) 0

# Loops

6. How many times will the loop execute?

```
let count = 0 ;
for ( let i = 1 ; i <= 5 ; i++ ) {
    for ( let j = i ; j <= 5 ; j++ ) {
        count++;
    }
}
console . log ( count );
```

(a) 5

(b) 10

(c) 15 🟢

(d) 20

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7. What is the output of the following code?

```
let result = '';
for (let i = 0; i < 4; i++) {
    for (let j = 0; j < i; j++) {
        result += '*';
    }
}
console.log(result);
```

(a) ***    ans - ******

(b) ****

(c) *******

(d) ********

## Functions

8. What will be logged to the console?

```
function foo(a, b = 4, c = 8) {
    return a + b + c;
}
console.log(foo(2));
```

(a) 14 🟢

(b) 10

(c) 6

(d) 2

9. What is the output of this code?

```
(function(x) {
    return (function(y) {
        console.log(x);
    })(2);
})(1);
```

(a) 1 🟢

(b) 2

(c) undefined

(d) ReferenceError

## Objects

10. What will the following code output?

```
const person = {
    name : ' John ' ,
    greet : function ( ) {
        console.log ( this.name );
    }
};
const greet = person.greet;
greet ( );
```

(a) John

(b) undefined 🟢

(c) ReferenceError

(d) null

11. What is the output of this code?

```
const obj = {
    a : 1 ,
    b : {
        c : 2 ,
        d : 3
    }
};
const { a , b : { c } } = obj;
console.log ( a , c );
```

(a) 1 2 🟢

(b) 1 3

(c) undefined 2

(d) undefined 3

## Arrays

12. What will the following code output?

```
const arr = [ 1 , 2 , 3 , 4 ];
const result = arr.reduce ( ( acc , val ) => acc + val , 0 ); console.log ( result );
```

(a) 10 🟢

(b) 9

(c) 8

(d) 7

13. What is the output of this code?

```
const arr = [ 1 , 2 , 3 ] ;
arr [ 1 0 ] = 9 9;
console.log ( arr.length ) ;
```

(a) 3

(b) 4

(c) 11 🟢

(d) 10

# DOM

14. What will the following code output?

```
document . body . innerHTML = '<div id=" test ">Hello </div > '; const
el = document . getElementById ( ' test ' ) ;
console.log ( el . textContent ) ;
```

(a) Hello 🟢

(b) undefined

(c) null

(d) ReferenceError

15. How can you select all elements with the class name 'item' ?

(a) document.querySelector('.item')

(b) document.querySelectorAll('.item')

(c) document.getElementsByClassName('item')

(d) Both b and c 🟢

16. What does the following code output?

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

(a) true true

(b) false false 🟢

(c) true false

(d) false true

17. What will be the result of this code?

```
function test ( ) {
    console . log ( a ) ;
    console . log ( foo ( ) ) ;
    var a = 1 ;
    function foo ( ) {
        return 2 ;
    }
}
test ( ) ;
```

(a) undefined, 2 🟢

(b) ReferenceError, 2

(c) undefined, undefined

(d) 1, 2

18. What does the following code output?

```
const a = {} ;
const b = { key : ' b ' } ;
const c = { key : ' c ' } ;
a [ b ] = 1 2 3 ;
a [ c ] = 4 5 6 ;
console . log ( a [ b ] ) ;
```

(a) 123

(b) 456 🟢

(c) undefined

(d) TypeError

19. What will the following code output?

```
let x = [ 1 , 2 , 3 ] ;
let y = x ;
x = [ 4 , 5 , 6 ] ;
console . log ( y ) ;
```

(a) [1, 2, 3]

(b) [4, 5, 6] ●

(c) undefined

(d) TypeError

20. What will the following code output?

```
const obj1 = { key : ' value ' } ; const obj2 = obj1 ;
obj2 . key = ' newValue ' ;
console . log ( obj1 . key ) ;
```

(a) value

(b) newValue ●

(c) undefined

(d) TypeError