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
- (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
- (e) 12
- (d) 15

Control Statements

4. What will the following code output?

```
for (let i = 0; i < 3; i++) {    setTimeout(() \Rightarrow console.log(i), 1000); }
```

- (a) 0 1 2
- (b) 3 3 3
- (c) 0 1 2 3
- (d) undefined undefined
- 5. What is the output of this code?

```
 \begin{array}{ll} let & x = 10; \\ if & (x = 5) & \{ \\ & console.log(x); \\ \} & else & \{ \\ & console.log(x * 2); \\ \} \end{array}
```

- (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);</pre>
```

- (a) 5
- (b) 10
- (e) 15
- (d) 20

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);</pre>
(a) ***
(b) ****
```

Functions

(d) ******

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);
```

- (2) 1 2
- (b) 13
- (c) undefined 2
- (d) undefined 3

Arrays

12. What will the following code output?

```
\begin{array}{lll} const & arr = [1\,,\ 2\,,\ 3\,,\ 4]; \\ const & result = arr.reduce((acc\,,\ val) \implies acc\,+\,val\,,\ 0); \\ console.log(result); \end{array}
```

(a) 10

- (b) 9
- (c) 8
- (d) 7
- 13. What is the output of this code?

```
const arr = [1, 2, 3];
arr [10] = 99;
console.log(arr.length);
```

- (a) 3
- (b) 4
- (e) 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?

- (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?

```
\begin{array}{l} const \ a = \{\}; \\ const \ b = \{ \ key \colon \ 'b' \ \}; \\ const \ c = \{ \ key \colon \ 'c' \ \}; \\ a[b] = 123; \\ a[c] = 456; \\ console . log(a[b]); \end{array}
```

- (a) 123
- (b) 450
- (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