

# JavaScript Questions

Student Name: \_\_\_\_\_

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## Variables

1. What is the difference between var, let, and const?
2. Declare a variable age with the value 20 using let.
3. Can we change the value of a const variable? Why or why not?
4. What will be the output?

```
var x = 5;
```

```
var x = 10;
```

```
console.log(x);
```

5. Write code to swap values of two variables a = 5 and b = 10.

## Loops

6. Write a for loop to print numbers from 1 to 5.
7. What is the difference between a while loop and a do...while loop?
8. Write the output of this code:

```
for (let i = 1; i < 10; i += 3) {
```

```
  console.log(i);
```

```
}
```

9. What is the use of for...in loop? Give an example.
10. What is the difference between for...in and for...of?

## Functions

11. Define a simple function greet() that prints 'Hello World'.
12. What is the difference between a function declaration and a function expression?

13. What does an arrow function look like? Give one example.
14. What is an IIFE (Immediately Invoked Function Expression)? Write one.
15. What keyword do we use to return a value from a function?

## **Objects & OOP**

16. Create an object student with properties: name, age, city.
17. What is object destructuring? Give a small example.
18. Define a Person class with a constructor that takes name and age.
19. What keyword is used to create an object from a class?
20. What is inheritance in JavaScript classes? Write a small example.

## **DOM**

21. What does document.getElementById('id') do?
22. Write code to change the innerText of a <p> element with class 'msg'.
23. What is the difference between innerText and innerHTML?
24. What does document.title return?
25. What does appendChild() do? Write one example.

## **Events**

26. Write an example of a mouse event (onclick or dblclick).
27. What is the difference between onclick="..." and addEventListener("click", ...)?
28. Write an example of a keyboard event (keydown or keyup).
29. What does the submit event do in forms?
30. Write an example where a button click changes the background color of the page.