JavaScript Beginner Questions (Arrays, Strings, Numbers, Destructuring, Rest Operator)

1. What is the output of the following?

```
console.log(typeof 42);
```

2. How do you convert the string "123" to a number?

3. What will this print?

```
console.log(Number("abc"));
```

4. Which method returns a number with 2 decimal places?

```
let num = 3.14159;
console.log(num.____(2));
```

5. What does parseInt("10.5") return?

6. How do you check if a value is NaN?

7. What is the result of 0.1 + 0.2 === 0.3? Why?

8. How do you convert a number to a string?

9. What does Math.floor(4.9) return?

10. What does Math.random() return?

11. How do you find the length of a string?

```
let str = "Hello";
```

12. What will this print?

```
let str = "hello";
console.log(str.toUpperCase());
```

13. How do you get the first character of a string "Hello"?

14. What does str.includes("world") return if str = "hello world"?

15. What does str.indexOf("e") return for str = "hello"?

16. How do you concatenate two strings?

17. How do you extract a substring from a string?

18. What does str.trim() do?

19. How to replace 'world' with 'JS' in 'hello world'?

20. What does 'abc'.charAt(1) return?

21. How do you add an item to the end of an array?

```
let fruits = ["apple", "banana"];
```

22. What is the index of "banana" in the array ["apple", "banana", "cherry"]?

23. How do you get the length of an array?

24. What does this output?

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

25. How do you remove the last element of an array?

26. How to add an element to the beginning of an array?

27. What does arr.slice(1, 3) return for arr = [10, 20, 30, 40]?

28. How do you check if a variable is an array?

29. How do you loop through an array?

30. How do you merge two arrays?

31. Destructure the first and second elements:

```
let arr = [10, 20];
let [a, b] = arr;
```

32. What will be the value of y?

```
let obj = { x: 1, y: 2 };
let { y } = obj;
```

33. Destructure 'name' from this object:

```
const user = { name: "Alice", age: 25 };
```

34. What does this do?

```
const [first, ...rest] = [1, 2, 3, 4];
console.log(rest);
```

35. What is the output of:

```
const {a = 10} = {};
```

36. How do you swap variables using array destructuring?

37. How do you destructure a nested object?

38. What happens if a property doesn't exist when destructuring?

39. How do you rename a variable while destructuring?

40. How to use default values in destructuring?

41. What is the rest operator used for in function parameters?

42. What is the output?

```
const [a, ...b] = [1, 2, 3, 4];
console.log(a, b);
```

43. How do you use rest to collect remaining object properties?

```
const { name, ...rest } = { name: "Bob", age: 30, city: "Tokyo" };
```

44. Use rest in function definition to accept any number of arguments.

45. What is the difference between rest and spread operators?

46. Can you use rest in the middle of a parameter list? Why or why not?

47. What does this return?

```
function test(...args) { return args.length; }
```

48. How do you use rest with array destructuring?

49. Is it possible to use rest in object destructuring?

50. What is the output?

```
const sum = (...nums) => nums.reduce((a, b) => a + b, 0);
```

```
console.log(sum(1, 2, 3));
```