

1. Which of the following is a correct variable declaration in JavaScript?
 - a) var 1name;
 - b) let name = "John";
 - c) const name: "John";
 - d) variable name = "John";
2. How do you write a single-line comment in JavaScript?
 - a) <!-- This is a comment -->
 - b) /* This is a comment */
 - c) // This is a comment
 - d) ** This is a comment **
3. What is the result of 5 + "5" in JavaScript?
 - a) 10
 - b) "55"
 - c) 5
 - d) Error
4. What will console.log(2 == "2"); output?
 - a) true
 - b) false
 - c) undefined
 - d) Error
5. Which method is used to remove the last element from an array?
 - a) shift()
 - b) pop()
 - c) splice()
 - d) slice()
6. Which of the following correctly declares an Immediately Invoked Function Expression (IIFE)?
 - a) function() {}();
 - b) (function() {})();
 - c) function() {}();
 - d) {}(function() {});
7. What is the difference between == and === in JavaScript?
 - a) == checks value only, === checks value and type
 - b) == checks type only, === checks value only
 - c) === is used for assignment
 - d) There is no difference
8. Which of the following is **not** a valid JavaScript loop?
 - a) for
 - b) while
 - c) foreach

d) do while

9. Which method runs a function at specific time intervals?

- a) setInterval()
- b) setTimeout()
- c) clearInterval()
- d) intervalRun()

10. Which of the following is a JavaScript module syntax?

- a) import { module } from "file.js";
- b) require("module")
- c) #include "module"
- d) use module "file.js";

11. What does Math.ceil(4.3) return?

- a) 4
- b) 5
- c) 4.5
- d) 4.3

12. Which of the following removes the **first** element from an array?

- a) shift()
- b) pop()
- c) unshift()
- d) slice()

13. What will console.log(typeof undefined); output?

- a) "null"
- b) "undefined"
- c) "object"
- d) "string"

14. How do you create a **deep copy** of an object in JavaScript?

- a) Object.assign({}, obj)
- b) JSON.parse(JSON.stringify(obj))
- c) obj.clone()
- d) new obj()

15. Which method can **merge** two arrays?

- a) concat()
- b) push()

- c) merge()
- d) combine()

16. Which statement correctly adds an **event listener** in JavaScript?

- a) `document.addEventListener("click", myFunction);`
- b) `document.onClick = myFunction;`
- c) `window.attachEvent("click", myFunction);`
- d) `window.add("click", myFunction);`

17. **What does `document.getElementById("demo").innerHTML = "Hello!";` do?**

- a) Changes the HTML content of an element with id "demo"
- b) Changes the CSS style of the element
- c) Deletes the element
- d) Adds a new child element

18. **What will be the result of `5 + "5" - 2`?**

- a) "55"
- b) 53
- c) NaN
- d) Error

19. What will be logged?

```
function test() {  
  var x = 10;  
  if (true) {  
    var x = 20;  
  }  
  console.log(x);  
}  
test();
```

- a) 10
- b) 20
- c) undefined
- d) Error

20. **What does the spread operator (`...`) do?**

- a) Copies all object properties
- b) Merges arrays
- c) Expands elements of an array
- d) All of the above

21. Explain the difference between **var**, **let**, and **const** with examples.

22. Write a function to **check if a number is even or odd**.
23. Explain the difference between == and === in JavaScript.
24. Write JavaScript code to **change the background color of a webpage on a button click**.
25. Array = [12,18,45,23,98,76,56,90,84,68]
Print a new array all-numbers are greater than 50
26. write a code to show and hide password