Batch 3 - JavaScript Interview Test Answers (by Re-Re Sudhan)

Q1. == vs ===: == compares value only, so '5'==5 true. === compares value and type, so '5'===5 false.
Interview: Always prefer === for type safety.

Q2. const name='Re-Re Sudhan'; let age=22; console.log(name,age); // const=constant, let=block scope.

Q3. function square(n){ return n*n; } console.log(square(5)); // 25.

Q4. const add=(a,b)=>a+b; // Arrow fn shorter, auto binds this.

Q5. Falsy values: 0, '', null, undefined, NaN, false. Example: if(0){} runs false.

Q6. function sumAll(...nums){ return nums.reduce((a,b)=>a+b,0); } console.log(sumAll(1,2,3,4)); // 10.

Q7. [2,4,6,8,10].map(n=>n*2); // [4,8,12,16,20].

Q8. [1,2,3,4,5,6,7,8].filter(n=>n%2===0).length; // 4.

Q9. const s={name:'Sudhan',batch:3,course:'MERN'}; Object.keys(s); Object.values(s).

Q10. Prime check with loop: function isPrime(n){ if(n<=1) return false; for(i=2;i<n;i++){ if(n%i==0) return false;} return true; }

Q11. Closure Counter: function createCounter(){let c=0; return ()=>++c;} const ctr=createCounter(); ctr(); ctr(); // 1,2

Q12. employees.filter(e=>e.salary>30000).map(e=>e.name); // ['B','C'].

Q13. 'JavaScript'.split('').reverse().join(''); // 'tpircSavaJ'.

Q14. let max=-Infinity; for(let n of [10,20,50,30]){ if(n>max) max=n;} console.log(max); // 50.

Q15. function palindrome(s){ return s===s.split('').reverse().join(''); } palindrome('madam'); // true.

Q16. const p={id:1,name:'Laptop',price:50000}; const {name,price}=p; console.log(`${name} costs ${price}`);

Q17. [1,2,3,4,5].filter(n=>n%2!==0); // [1,3,5].

Q18. [5,10,15,20].reduce((a,b)=>a+b,0); // 50.

Q19. switch(day){ case 1: return 'Mon'; case 2: return 'Tue'; ...}

Q20. Factorial: function f(n){let res=1; for(i=1;i<=n;i++) res*=i; return res;} f(5);//120.

Q21. [1,[2,3],[4,[5]]].flat(Infinity); // [1,2,3,4,5].

Q22. Closure password: function secret(){let pwd='123'; return ()=>pwd;} secret()(); // '123'.

Q23. class BankAccount{ constructor(){this.bal=0;} deposit(a){this.bal+=a;} getBalance(){return this.bal;} }

Q24. async function get(){try{let r=await fetch(url); let d=await r.json(); console.log(d.title);}catch(e){console.log(e)}}

Q25. [...new Set([1,2,2,3,4,4,5])]; // [1,2,3,4,5].

Q26. 'banana'.split('a').length-1; // 3.

Q27. [5,1,4,2,3].sort((a,b)=>a-b); // [1,2,3,4,5].

Q28. document.querySelector('#btn').addEventListener('click',()=>console.log('Clicked!'));

Q29. function isAnagram(a,b){ return a.split('').sort().join('')===b.split('').sort().join(''); }

Q30. console.log('Start'); setTimeout(()=>console.log('Async'),1000); console.log('End'); Output: Start, End, Async. Async handled by event loop.