

GENERAL ASSISSEMENT

1. Variables (10 Questions)

1. Which keyword is used to declare a block-scoped variable in JavaScript?
 - a) var
 - b) let
 - c) const
 - d) define
2. What will `typeof null` return?
 - a) "null"
 - b) "undefined"
 - c) "object"
 - d) "boolean"
3. Which keyword creates a constant variable?
 - a) let
 - b) const
 - c) var
 - d) static
4. What is the output of:
 5. `let x;`
 6. `console.log(x);`
 - a) null
 - b) undefined
 - c) NaN
 - d) ""
7. What will `var` variables be scoped to?
 - a) Block
 - b) Function
 - c) Loop
 - d) File
8. Can a `const` variable be reassigned?
 - a) Yes
 - b) No
 - c) Only inside a loop
 - d) Only inside a function
9. What is hoisting in JavaScript?
 - a) Moving variables to global scope

- b) Declaring variables twice
 - c) Variables and functions being moved to the top during compilation
 - d) Importing modules
10. What is the output of:
11. `console.log(y);`
12. `var y = 5;`
- a) 5
 - b) undefined
 - c) ReferenceError
 - d) null
13. What is the scope of `let` variables?
- a) Global
 - b) Function
 - c) Block
 - d) File
14. Which is NOT a valid variable name in JavaScript?
- a) `$var`
 - b) `var_name`
 - c) `2var`
 - d) `_value`
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2. Functions (10 Questions)

1. Which keyword is used to define a function?
- a) `func`
 - b) `function`
 - c) `def`
 - d) `method`
2. What will be the output?
3. `function sum(a, b) {`
4. `return a + b;`
5. `}`
6. `console.log(sum(2, "3"));`
- a) 5
 - b) 23

- c) NaN
- d) undefined

7. Which of the following is a function expression?

- a) `function test() {}`
- b) `let test = function() {};`
- c) `function = test {};`
- d) `let test: function {};`

8. What will happen if a function has no return statement?

- a) It will return 0
- b) It will return null
- c) It will return undefined
- d) It will throw an error

9. Which is a self-invoking function?

- a) `function() {};`
- b) `(function() {}) () ;`
- c) `function() () {}`
- d) `invoke(function) () ;`

10. What is the output of:

```
11. function test(x) {  
12.   x = x || 10;  
13.   return x;  
14. }  
15. console.log(test(0));
```

- a) 0
- b) 10
- c) null
- d) undefined

16. Arrow functions were introduced in which ECMAScript version?

- a) ES5
- b) ES6
- c) ES7
- d) ES8

17. What does `arguments.length` give inside a function?

- a) The number of parameters defined
- b) The number of arguments passed
- c) The length of the function name
- d) Always returns 0

18. What is the default value of a missing function parameter in JS?

- a) 0
- b) undefined
- c) null
- d) ""

19. Which is true about arrow functions?

- a) They have their own `this`
 - b) They inherit `this` from the enclosing scope
 - c) They must always return something
 - d) They cannot be anonymous
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3. Switch Statements (10 Questions)

1. The switch statement is used to:

- a) Loop through values
- b) Execute code blocks based on matching cases
- c) Declare variables
- d) Define functions

2. What must each case in a switch end with to prevent fall-through?

- a) stop
- b) end
- c) break
- d) return

3. What is the default case in a switch for?

- a) Executing if no case matches
- b) Resetting variables
- c) Stopping the code
- d) Declaring constants

4. Can you use strings in a switch statement?

- a) Yes
- b) No
- c) Only numbers
- d) Only booleans

5. What happens if `break` is omitted?

- a) The program stops
- b) The next case will execute
- c) The default case runs automatically
- d) Nothing happens

6. Which keyword is used to compare values in a switch?
- a) ==
 - b) ===
 - c) =
 - d) !=
7. Can switch statements be nested?
- a) Yes
 - b) No
 - c) Only if using numbers
 - d) Only if using loops
8. What will be printed?
- ```
9. let fruit = "apple";
10. switch(fruit) {
11. case "banana": console.log("Banana");
12. default: console.log("Default");
13. }
```
- a) Banana
  - b) Default
  - c) Banana Default
  - d) Nothing
14. Can multiple cases share the same code block?
- a) Yes
  - b) No
  - c) Only if both are numbers
  - d) Only in ES6
15. Switch cases use:
- a) Strict comparison
  - b) Loose comparison
  - c) Assignment
  - d) String conversion
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#### 4. Arrays (10 Questions)

1. Which method adds an element at the end of an array?
- a) push()
  - b) pop()

- c) shift()
  - d) unshift()
2. Which method removes the last element?
    - a) shift()
    - b) pop()
    - c) splice()
    - d) slice()
  3. Which method returns a new array without modifying the original?
    - a) slice()
    - b) splice()
    - c) push()
    - d) pop()
  4. What is the index of the first element in an array?
    - a) 1
    - b) 0
    - c) -1
    - d) undefined
  5. How do you check the length of an array `arr`?
    - a) `arr.count`
    - b) `arr.length`
    - c) `length(arr)`
    - d) `arr.size`
  6. Which method combines arrays?
    - a) `concat()`
    - b) `join()`
    - c) `push()`
    - d) `merge()`
  7. What will `["a", "b"].join("-")` return?
    - a) "a-b"
    - b) ["a-b"]
    - c) "ab"
    - d) "a b"
  8. Which method removes the first element?
    - a) shift()
    - b) unshift()
    - c) pop()
    - d) slice()
  9. How do you find the index of "cat" in an array?
    - a) `arr.indexOf("cat")`
    - b) `arr.find("cat")`

- c) arr.getIndex("cat")
  - d) arr.search("cat")
10. Which method executes a function for each array element?
- a) map()
  - b) push()
  - c) filter()
  - d) join()
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## 5. Loops (10 Questions)

1. Which loop runs at least once regardless of condition?
  - a) for
  - b) while
  - c) do...while
  - d) foreach
2. Which loop is best for iterating over object properties?
  - a) for...in
  - b) for...of
  - c) while
  - d) loop...in
3. Which loop is best for iterating over array values?
  - a) for...in
  - b) for...of
  - c) while
  - d) for each
4. What will this print?
5. 

```
for (let i = 0; i < 3; i++) {
```
6. 

```
 console.log(i);
```
7. 

```
}
```

  - a) 1 2 3
  - b) 0 1 2
  - c) 0 1 2 3
  - d) 1 2
8. Which keyword skips the current loop iteration?
  - a) stop
  - b) skip

- c) continue
  - d) break
9. Which keyword ends a loop entirely?
- a) stop
  - b) break
  - c) return
  - d) exit
10. What is infinite loop risk?
- a) Condition never becomes false
  - b) Too many variables
  - c) Missing break
  - d) Multiple loops
11. Which loop is ideal for counting from 1 to 10?
- a) while
  - b) for
  - c) do...while
  - d) foreach
12. Which method runs a function for every element in an array without returning a new array?
- a) map()
  - b) forEach()
  - c) filter()
  - d) reduce()
13. What will break do inside a nested loop?
- a) End all loops
  - b) End only the innermost loop
  - c) Skip iteration
  - d) Pause loop
14. • Which of the following is used to create a React component?
- a) `createComponent()`
  - b) `ReactDOM.create()`
  - c) `React.createElement()`
  - d) `new React.Component()`
15. • JSX stands for:
- a) JavaScript XML
  - b) JavaScript Xtreme Language
  - c) JSON XML
  - d) Java Syntax Extension



- 16.● In React, what hook is used for managing state in a functional component?
- a) `useData`
  - b) `useStore`
  - c) `useState`
  - d) `useVariable`
- 17.● Which method is used to render React elements to the DOM?
- a) `ReactDOM.mount()`
  - b) `ReactDOM.render()`
  - c) `React.render()`
  - d) `renderDOM()`
- 18.● Props in React are:
- a) Mutable variables in components
  - b) Used to pass data between components
  - c) Internal component state
  - d) Functions for rendering
- 19.● Which hook is used to perform side effects in React?
- a) `useState`
  - b) `useEffect`
  - c) `useReducer`
  - d) `useCallback`
- 20.● In React, a key prop is mainly used for:
- a) Identifying unique elements in a list
  - b) Encrypting component data
  - c) Triggering re-renders
  - d) Handling authentication
- 21.● Which of the following is true about React components?
- a) They must be written as ES6 classes
  - b) They can be functional or class-based
  - c) They must use `render()` method
  - d) They can't return JSX
- 22.● What is the correct syntax for conditional rendering in JSX?
- a) `{if (condition) { <Component /> }}`
  - b) `{condition && <Component />}`
  - c) `if (condition) <Component />;`
  - d) `condition ? {<Component />} : null`
- 23.● Which hook is used for optimizing performance by memoizing values?
- a) `useMemo`

- b) useEffect
- c) useReducer
- d) useRef

DYNASOFT