

Basics

1. **Primitive vs Non-Primitive Data Types**
2. **Is JavaScript a statically typed or a dynamically typed language?**
3. **Undefined vs Not Defined**
4. **null vs undefined**
5. **NaN**
6. **Strict Mode in JavaScript**
7. **Typeof Operator**
8. **Type of Errors**

Variables and Scoping

9. **let vs var**
10. **const vs let**
11. **Scope**
12. **Type of Scope**
13. **Block Scope**
14. **Scope Chain**
15. **Shadowing**
16. **Hoisting**
17. **TDZ (Temporal Dead Zone)**
18. **Lexical Scope**
19. **Lexical Environment**

Functions

20. **Function Statement**
21. **Function Expression**
22. **Anonymous Function**
23. **Named Function Expression**
24. **First Class Functions**
25. **Higher Order Functions**

- 26. **Arrow Functions**
- 27. **This Keyword**
- 28. **Function Object**
- 29. **Function Constructors**
- 30. **Generator Functions**
- 31. **Factory Function**
- 32. **IIFE (Immediately Invoked Function Expression)**
- 33. **Pure Functions**
- 34. **Call, Apply, Bind**
- 35. **Currying**
- 36. **Closures**

Advanced Functions and Promises

- 37. **Promise**
- 38. **Promise States**
- 39. **Promise Chain**
- 40. **Promise Create**
- 41. **Async/Await**
- 42. **Callback Hell**
- 43. **Event Loop**
- 44. **Micro Tasks**
- 45. **Event Delegation**
- 46. **Event Bubbling and Stop Propagation**

Events and DOM Manipulation

- 47. **Event Listeners**
- 48. **Event Loop Working**
- 49. **JS Engine Working**
- 50. **V8 Engine**
- 51. **Event Handling**
- 52. **Event Capture**

53. **Event Propagation**

Data Structures and Algorithms

54. **Array Methods: Push, Pop, Shift, Unshift**

55. **String Methods**

56. **Map, Reduce, Filter, forEach**

57. **Map vs ForEach**

58. **Set, WeakSet**

59. **Map, WeakMap**

60. **Deep Copy vs Shallow Copy**

Object-Oriented Programming

61. **OOP Concepts in JavaScript**

62. **Prototype**

63. **Prototypal Inheritance**

64. **Classical Inheritance**

65. **Constructor**

66. **Prototype Chain**

67. **Object Methods**

68. **Object Function**

69. **Object Destructuring**

70. **Object.defineProperty vs defineProperties**

71. **Object.fromEntries vs Object.entries**

Modern JavaScript (ES6+)

72. **ES6 Features**

73. **Template Literals**

74. **Destructuring**

75. **Arrow Functions vs Regular Functions**

76. **Rest Operator**

77. **Spread Operator**

- 78. ****Default Parameters****
- 79. ****Symbols****
- 80. ****BigInt****
- 81. ****Optional Chaining****
- 82. ****Nullish Coalescing Operator****
- 83. ****Modules: Import and Export****

Asynchronous JavaScript

- 84. ****Synchronous vs Asynchronous****
- 85. ****Event Loop****
- 86. ****Callbacks****
- 87. ****Promises****
- 88. ****Async/Await****

Advanced Topics

- 89. ****JSON: stringify vs parse****
- 90. ****LocalStorage vs sessionStorage vs Cookies****
- 91. ****Service Worker****
- 92. ****Web APIs****
- 93. ****HTTP Status Codes****
- 94. ****Axios vs Fetch****
- 95. ****Tree Shaking****
- 96. ****Polyfills****
- 97. ****PWA (Progressive Web Apps)****
- 98. ****Zone.js****

Miscellaneous

- 99. ****NaN****
- 100. ****IsNaN****
- 101. ****Regular Expressions****
- 102. ****Math Functions****

- 103. **Math.random()**
- 104. **Unary Operators**
- 105. **Ternary Operator**
- 106. **Bitwise Operators**
- 107. **Coma Operator**
- 108. **Eval**
- 109. **Uneval**
- 110. **Type Casting: Implicit and Explicit**
- 111. **Instanceof**
- 112. **Event Queue**
- 113. **Call Stack**
- 114. **Default Parameters**
- 115. **Nested Templates**
- 116. **Enhanced Objects**
- 117. **Single vs Multi Thread**
- 118. **Precedence**
- 119. **Accessors**
- 120. **Everything: Advantages/Disadvantages, Differences**
- 121. **Loosely Typed Language**