Introduction to JavaScript

1. **What is JavaScript primarily used for?**
   - a) Styling web pages
   - b) Structuring web pages
   - c) Adding interactivity to web pages
   - d) Managing databases
   - **Answer:** c) Adding interactivity to web pages

2. **JavaScript is a _____ language.**
   - a) Compiled
   - b) Interpreted
   - c) Machine
   - d) Assembly
   - **Answer:** b) Interpreted

3. **Which company developed JavaScript?**
   - a) Microsoft
   - b) Apple
   - c) Netscape
   - d) Google

- **Answer:** c) Netscape

Basic Syntax and Statements

4. **Which symbol is used for single-line comments in JavaScript?**
   - a) //
   - b) #
   - c) /*
   - d) <!--
   - **Answer:** a) //

5. **How do you declare a variable in JavaScript?**
   - a) var
   - b) let
   - c) const
   - d) All of the above
   - **Answer:** d) All of the above

6. **Which of the following is not a JavaScript data type?**

- a) Number

- b) String

- c) Boolean

- d) Character

- **Answer:** d) Character

Functions

7. **How do you define a function in JavaScript?**
  - a) function myFunction() {}

  - b) def myFunction() {}

  - c) func myFunction() {}

  - d) define myFunction() {}

  - **Answer:** a) function myFunction() {}

8. **What is the correct syntax for a function expression?**
  - a) var myFunction = function() {}

  - b) var myFunction := function() {}

  - c) var myFunction == function() {}

  - d) var myFunction => function() {}

- **Answer:** a) var myFunction = function() {}

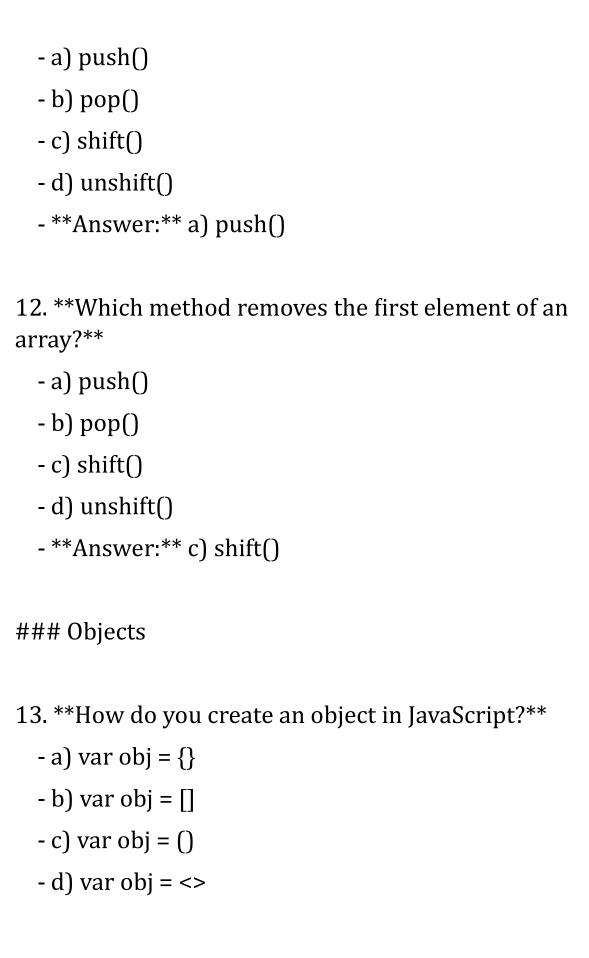9. **How do you call a function named "myFunction"?**
  - a) call myFunction()
  - b) call function myFunction()
  - c) myFunction()
  - d) function myFunction()
  - **Answer:** c) myFunction()

Working with Arrays

10. **How do you create an array in JavaScript?**
  - a) var arr = "1, 2, 3"
  - b) var arr = (1, 2, 3)
  - c) var arr = [1, 2, 3]
  - d) var arr = {1, 2, 3}
  - **Answer:** c) var arr = [1, 2, 3]

11. **Which method adds an element to the end of an array?**

- a) push()
- b) pop()
- c) shift()
- d) unshift()
- **Answer:** a) push()

12. **Which method removes the first element of an array?**
   - a) push()
   - b) pop()
   - c) shift()
   - d) unshift()
   - **Answer:** c) shift()

Objects

13. **How do you create an object in JavaScript?**
   - a) var obj = {}
   - b) var obj = []
   - c) var obj = ()
   - d) var obj = <>

- **Answer:** a) var obj = {}

14. **How do you access a property of an object?**

   - a) obj[property]

   - b) obj.property

   - c) Both a and b

   - d) None of the above

   - **Answer:** c) Both a and b

15. **What does the keyword `this` refer to in a method?**

   - a) The current object

   - b) The global object

   - c) The previous object

   - d) The next object

   - **Answer:** a) The current object

DOM Manipulation

16. **Which method is used to select an element by its ID?**

- a) getElementById()

- b) querySelector()

- c) getElementsByClassName()

- d) getElementsByTagName()

- **Answer:** a) getElementById()

17. **How do you change the text content of an HTML element?**

- a) element.innerText

- b) element.textContent

- c) element.innerHTML

- d) All of the above

- **Answer:** d) All of the above

18. **How do you add a new element to the DOM?**

- a) createElement()

- b) appendChild()

- c) insertBefore()

- d) All of the above

- **Answer:** d) All of the above

Event Handling

19. **Which method is used to add an event listener to an element?**

   - a) addEventListener()

   - b) attachEvent()

   - c) addListener()

   - d) attachListener()

   - **Answer:** a) addEventListener()

20. **Which event occurs when a user clicks on an HTML element?**

   - a) onchange

   - b) onmouseover

   - c) onclick

   - d) onmouseup

   - **Answer:** c) onclick

21. **Which method can stop event propagation?**

   - a) stopPropagation()

   - b) preventDefault()

- c) stopEvent()

- d) preventPropagation()

- **Answer:** a) stopPropagation()

Basic Error Handling

22. **How do you write a `try...catch` statement?**
    - a) try {} catch (e) {}
    - b) attempt {} catch (e) {}
    - c) try {} handle (e) {}
    - d) attempt {} handle (e) {}
    - **Answer:** a) try {} catch (e) {}

23. **What is the purpose of a `finally` block?**
    - a) To execute code after try/catch regardless of the result
    - b) To catch errors
    - c) To retry the try block
    - d) None of the above
    - **Answer:** a) To execute code after try/catch regardless of the result

24. **Which method can be used to log errors to the console?**

   - a) console.error()

   - b) console.log()

   - c) console.warn()

   - d) console.debug()

   - **Answer:** a) console.error()

Introduction to ES6 Features

25. **Which keyword is used to declare a constant variable in ES6?**

   - a) const

   - b) var

   - c) let

   - d) constant

   - **Answer:** a) const

26. **How do you interpolate variables into a string in ES6?**

- a) `${variable}`
- b) `{variable}`
- c) $(variable)
- d) ${variable}
- **Answer:** a) `${variable}`

27. **What is the spread operator in ES6?**
   - a) ...
   - b) *
   - c) ...
   - d) &&&
   - **Answer:** a) ...

Basic Asynchronous JavaScript

28. **Which function is used to execute code after a delay?**
   - a) setTimeout()
   - b) setInterval()
   - c) delay()
   - d) wait()

- **Answer:** a) setTimeout()

29. **Which object is used for creating promises in JavaScript?**
   - a) Promise
   - b) Await
   - c) Async
   - d) Delay
   - **Answer:** a) Promise

30. **Which method is used to handle a fulfilled promise?**
   - a) then()
   - b) catch()
   - c) finally()
   - d) fulfill()
   - **Answer:** a) then()

Working with JSON

31. **How do you parse a JSON string into a JavaScript object?**

    - a) JSON.parse()

    - b) JSON.stringify()

    - c) JSON.decode()

    - d) JSON.convert()

    - **Answer:** a) JSON.parse()

32. **How do you convert a JavaScript object to a JSON string?**

    - a) JSON.stringify()

    - b) JSON.parse()

    - c) JSON.encode()

    - d) JSON.convert()

    - **Answer:** a) JSON.stringify()

33. **What is the correct JSON syntax for an object?**

    - a) {"name": "John", "age": 30}

    - b) {name: "John", age: 30}

    - c) {'name': 'John', 'age': 30}

- d) {name = "John", age = 30}
- **Answer:** a) {"name": "John", "age": 30}

Basic Form Validation

34. **How do you access a form element by its name attribute?**
    - a) form.elements["name"]
    - b) form.getElementByName("name")
    - c) form.getElement("name")
    - d) form.name
    -

 Answer: a) form.elements["name"]

35. **Which event occurs when a form is submitted?**
    - a) onsubmit
    - b) oninput
    - c) onchange
    - d) onselect

- **Answer:** a) onsubmit

36. **How do you prevent a form from being submitted?**
    - a) event.preventDefault()
    - b) event.stopPropagation()
    - c) event.stop()
    - d) event.prevent()
    - **Answer:** a) event.preventDefault()

Introduction to JavaScript Libraries and Frameworks

37. **Which library is known for simplifying HTML DOM tree traversal and manipulation?**
    - a) jQuery
    - b) React
    - c) Angular
    - d) Vue
    - **Answer:** a) jQuery

38. **Which framework is used for building user interfaces and single-page applications?**

   - a) React

   - b) Node.js

   - c) Bootstrap

   - d) Express

   - **Answer:** a) React

39. **Which command is used to install a library in a Node.js project?**

   - a) npm install

   - b) node install

   - c) npm add

   - d) node add

   - **Answer:** a) npm install

Additional Questions

40. **Which symbol is used to denote template literals in ES6?**

   - a) `

- b) "
- c) '
- d) ~
- **Answer:** a) `

41. **Which method is used to remove an event listener?**
- a) removeEventListener()
- b) detachEvent()
- c) removeListener()
- d) detachListener()
- **Answer:** a) removeEventListener()

42. **How do you convert a string to a number in JavaScript?**
- a) Number()
- b) parseFloat()
- c) parseInt()
- d) All of the above
- **Answer:** d) All of the above

43. **What is the result of `typeof null` in JavaScript?**

   - a) "object"

   - b) "null"

   - c) "undefined"

   - d) "number"

   - **Answer:** a) "object"

44. **Which method converts an array to a string?**

   - a) join()

   - b) toString()

   - c) concat()

   - d) split()

   - **Answer:** a) join()

45. **How do you stop an interval timer?**

   - a) clearInterval()

   - b) stopInterval()

   - c) resetInterval()

   - d) cancelInterval()

   - **Answer:** a) clearInterval()

46. **Which keyword is used to define a class in ES6?**

   - a) class

   - b) function

   - c) define

   - d) constructor

   - **Answer:** a) class

47. **How do you define a default parameter in a function?**

   - a) function myFunc(param = value) {}

   - b) function myFunc(param := value) {}

   - c) function myFunc(param == value) {}

   - d) function myFunc(param => value) {}

   - **Answer:** a) function myFunc(param = value) {}

48. **Which method can be used to combine two or more arrays?**

   - a) concat()

   - b) merge()

- c) combine()
- d) append()
- **Answer:** a) concat()

49. **How do you check if a variable is an array?**
    - a) Array.isArray()
    - b) isArray()
    - c) is.array()
    - d) Array.check()
    - **Answer:** a) Array.isArray()

50. **What does `NaN` stand for in JavaScript?**
    - a) Not-a-Number
    - b) Not-a-Null
    - c) Null-and-None
    - d) None-and-Null
    - **Answer:** a) Not-a-Number

Remaining Questions

51. **Which method adds new elements to the beginning of an array?**

    - a) unshift()

    - b) push()

    - c) shift()

    - d) pop()

    - **Answer:** a) unshift()

52. **Which method removes the last element of an array?**

    - a) pop()

    - b) push()

    - c) shift()

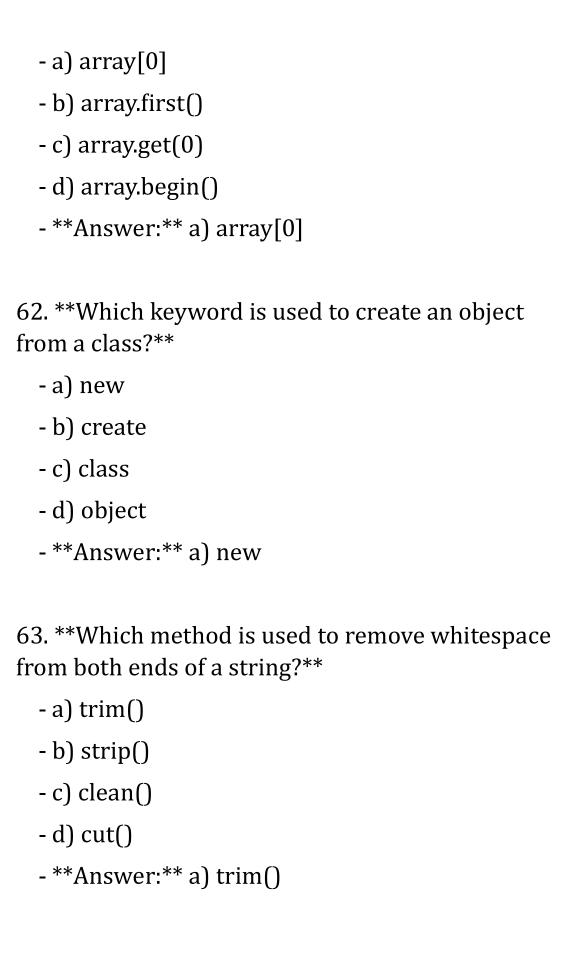   - d) unshift()

    - **Answer:** a) pop()

53. **How do you write a JavaScript object literal?**

    - a) var obj = {name: "John", age: 30}

    - b) var obj = ["John", 30]

    - c) var obj = (name: "John", age: 30)

    - d) var obj = name: "John", age: 30

- **Answer:** a) var obj = {name: "John", age: 30}

54. **What is the output of `typeof undefined`?**
   - a) "undefined"
   - b) "null"
   - c) "object"
   - d) "number"
   - **Answer:** a) "undefined"

55. **How do you declare an arrow function?**
   - a) const myFunc = () => {}
   - b) const myFunc = function() {}
   - c) function myFunc() {}
   - d) var myFunc = () => {}
   - **Answer:** a) const myFunc = () => {}

56. **What is the use of the `map()` method in arrays?**
   - a) To create a new array with the results of calling a provided function on every element in the array

- b) To filter elements from an array

- c) To reduce the elements of an array to a single value

- d) To sort the elements of an array

- **Answer:** a) To create a new array with the results of calling a provided function on every element in the array

57. **Which operator is used to check strict equality?**

- a) ===

- b) ==

- c) =

- d) =>

- **Answer:** a) ===

58. **Which method executes a function once for each array element?**

- a) forEach()

- b) map()

- c) filter()

- d) reduce()

- **Answer:** a) forEach()

59. **How do you find the length of an array?**
   - a) array.length
   - b) array.size
   - c) array.count
   - d) array.items
   - **Answer:** a) array.length

60. **Which method converts an array-like object to an array?**
   - a) Array.from()
   - b) Array.of()
   - c) Array.toArray()
   - d) Array.convert()
   - **Answer:** a) Array.from()

Remaining Questions (continued)

61. **How do you access the first element of an array?**

- a) array[0]

- b) array.first()

- c) array.get(0)

- d) array.begin()

- **Answer:** a) array[0]

62. **Which keyword is used to create an object from a class?**

- a) new

- b) create

- c) class

- d) object

- **Answer:** a) new

63. **Which method is used to remove whitespace from both ends of a string?**

- a) trim()

- b) strip()

- c) clean()

- d) cut()

- **Answer:** a) trim()

64. **How do you add a property to an existing object?**

   - a) obj.property = value

   - b) obj.addProperty(value)

   - c) obj.add(value)

   - d) obj.property.value

   - **Answer:** a) obj.property = value

65. **How do you loop through all properties of an object?**

   - a) for (var prop in obj)

   - b) for (var prop of obj)

   - c) obj.forEach()

   - d) obj.loop()

   - **Answer:** a) for (var prop in obj)

66. **What is the output of `2 + '2'` in JavaScript?**

   - a) "22"

   - b) 4

   - c) "4"

- d) Error
  - **Answer:** a) "22"

67. **Which method is used to join two or more strings?**
  - a) concat()
  - b) join()
  - c) merge()
  - d) add()
  - **Answer:** a) concat()

68. **Which statement is used to stop a loop?**
  - a) break
  - b) stop
  - c) exit
  - d) end
  - **Answer:** a) break

69. **Which method can be used to sort the elements of an array?**
  - a) sort()

- b) order()

- c) arrange()

- d) sequence()

- **Answer:** a) sort()

70. **How do you find the index of an element in an array?**

   - a) indexOf()

   - b) findIndex()

   - c

) getIndex()

   - d) searchIndex()

   - **Answer:** a) indexOf()

Remaining Questions (continued)

71. **What is the result of `typeof NaN`?**

   - a) "number"

   - b) "NaN"

   - c) "undefined"

- d) "object"

- **Answer:** a) "number"

72. **How do you create a new date object?**

   - a) new Date()

   - b) create Date()

   - c) date()

   - d) Date.new()

   - **Answer:** a) new Date()

73. **Which method returns the current day of the week?**

   - a) getDay()

   - b) getDate()

   - c) getWeekday()

   - d) getWeek()

   - **Answer:** a) getDay()

74. **Which method is used to set the value of an input element?**

   - a) value

- b) setValue()

- c) inputValue()

- d) set()

- **Answer:** a) value

75. **Which event is triggered when a form is reset?**

 - a) onreset

 - b) onsubmit

 - c) onload

 - d) onchange

 - **Answer:** a) onreset

76. **Which method can be used to clone an object?**

 - a) Object.assign()

 - b) Object.copy()

 - c) Object.clone()

 - d) Object.duplicate()

 - **Answer:** a) Object.assign()

77. **What is the correct syntax for an arrow function with a single parameter?**

   - a) param => {}

   - b) (param) => {}

   - c) {param} => {}

   - d) function(param) {}

   - **Answer:** a) param => {}

78. **Which method returns the character at a specified index in a string?**

   - a) charAt()

   - b) char()

   - c) getChar()

   - d) character()

   - **Answer:** a) charAt()

79. **What is the result of `'5' - 3`?**

   - a) 2

   - b) "53"

   - c) 8

   - d) Error

- **Answer:** a) 2

80. **Which method adds one or more elements to the end of an array and returns the new length of the array?**

   - a) push()
   - b) add()
   - c) append()
   - d) concat()
   - **Answer:** a) push()

Remaining Questions (continued)

81. **Which method reverses the order of the elements in an array?**

   - a) reverse()
   - b) flip()
   - c) invert()
   - d) reorder()
   - **Answer:** a) reverse()

82. **How do you remove a specific item from an array?**

  - a) splice()

  - b) remove()

  - c) delete()

  - d) cut()

  - **Answer:** a) splice()

83. **Which method creates a new array with all elements that pass the test implemented by the provided function?**

  - a) filter()

  - b) map()

  - c) forEach()

  - d) reduce()

  - **Answer:** a) filter()

84. **What is the value of `undefined + 1`?**

  - a) NaN

  - b) 1

  - c) undefined
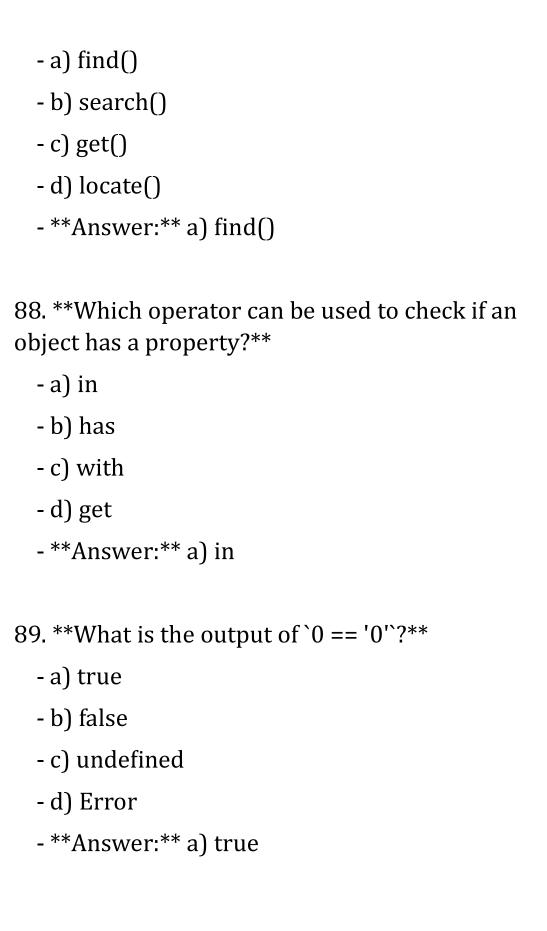
- d) Error

- **Answer:** a) NaN

85. **How do you remove a property from an object?**

   - a) delete obj.property

   - b) remove obj.property

   - c) obj.removeProperty(property)

   - d) obj.deleteProperty(property)

   - **Answer:** a) delete obj.property

86. **Which statement is used to skip the current iteration of a loop and proceed to the next iteration?**

   - a) continue

   - b) break

   - c) skip

   - d) next

   - **Answer:** a) continue

87. **Which method returns the first element in an array that satisfies the provided testing function?**

- a) find()
- b) search()
- c) get()
- d) locate()
- **Answer:** a) find()

88. **Which operator can be used to check if an object has a property?**
   - a) in
   - b) has
   - c) with
   - d) get
   - **Answer:** a) in

89. **What is the output of `0 == '0'`?**
   - a) true
   - b) false
   - c) undefined
   - d) Error
   - **Answer:** a) true

90. **What is the output of `0 === '0'`?**

   - a) false

   - b) true

   - c) undefined

   - d) Error

   - **Answer:** a) false

Remaining Questions (continued)

91. **How do you check if a number is an integer?**

   - a) Number.isInteger()

   - b) isInteger()

   - c) Number.isInt()

   - d) isInt()

   - **Answer:** a) Number.isInteger()

92. **What is the purpose of the `bind()` method in JavaScript?**

   - a) To create a new function with a specific `this` value

   - b) To attach an event listener to an element

- c) To combine two or more strings

- d) To loop through the properties of an object

- **Answer:** a) To create a new function with a specific `this` value

93. **Which method creates a new array with the results of calling a provided function on every element in the calling array?**

- a) map()

- b) forEach()

- c) filter()

- d) reduce()

- **Answer:** a) map()

94. **What does the `includes()` method do in arrays?**

- a) Checks if an array includes a certain value among its entries

- b) Adds a new element to the array

- c) Removes an element from the array

- d) Returns the index of a specified value

- **Answer:** a) Checks if an array includes a certain value among its entries

95. **Which method removes the first occurrence of a specified element from an array?**

   - a) splice()

   - b) pop()

   - c) shift()

   - d) delete()

   - **Answer:** a) splice()

96. **How do you find the maximum value in an array of numbers?**

   - a) Math.max(...array)

   - b) array.max()

   - c) Math.maximum(...array)

   - d) array.maximum()

   - **Answer:** a) Math.max(...array)

97. **Which method adds/removes items to/from an array, and returns the removed item(s)?**

   - a) splice()

- b) pop()

- c) shift()

- d) unshift()

- **Answer:** a) splice()

98. **What does the `reduce()` method do in arrays?**

   - a) Executes a reducer function on each element of the array, resulting in a single output value

   - b) Filters elements from an array

   - c) Maps elements to a new array

   - d) Iterates through each element of the array

   - **Answer:** a) Executes a reducer function on each element of the array, resulting in a single output value

99. **Which operator is used to check if a value is `null` or `undefined`?**

   - a) ?? (nullish coalescing operator)

   - b) ? (ternary operator)

   - c) && (logical AND operator)

   - d) || (logical OR operator)

- **Answer:** a) ?? (nullish coalescing operator)

100. **How do you declare a JavaScript variable?**
   - a) var, let, const
   - b) let, const, var
   - c) const, var, let
   - d) All of the above
   - **Answer:** d) All of the above