

CSS – 20 MCQs

1. Which CSS property sets the spacing between letters in a text?

- A) text-spacing
- B) letter-spacing
- C) word-spacing
- D) line-height

Answer: B) letter-spacing

2. What does the display: inline-block value do?

- A) Makes element inline but not respect width/height
- B) Makes element block-level
- C) Makes element inline-level with block properties
- D) Hides the element

Answer: C) Makes element inline-level with block properties

3. What does the overflow: hidden property do?

- A) Shows scrollbars
- B) Hides overflowing content
- C) Resizes the element
- D) Hides the element completely

Answer: B) Hides overflowing content

4. Which property is used to apply shadow to text?

- A) text-shadow
- B) box-shadow
- C) shadow-text
- D) font-shadow

Answer: A) text-shadow

5. Which value of position removes the element from normal flow?

- A) relative
- B) absolute
- C) fixed
- D) Both B and C

Answer: D) Both B and C

6. Which CSS property is used to underline text?

- A) font-decoration
- B) text-style
- C) text-decoration
- D) underline

Answer: C) text-decoration

7. What is the default position value of HTML elements?

- A) relative
- B) static
- C) fixed
- D) absolute

Answer: B) static

8. What does box-sizing: border-box do?

- A) Includes padding and border in width/height
- B) Adds box around text
- C) Excludes padding
- D) Hides border

Answer: A) Includes padding and border in width/height

9. Which property is used to align items in Flexbox?

- A) flex-align
- B) justify-content
- C) align-items
- D) Both B and C

Answer: D) Both B and C

10. Which unit is not relative in CSS?

- A) px
- B) em
- C) rem
- D) %

Answer: A) px

11. Which property sets the order of items in a flex container?

- A) flex-order
 - B) order
 - C) arrange
 - D) index
- Answer: B) order

12. How do you select all a elements inside a nav element?

- A) nav > a
 - B) nav a
 - C) nav+a
 - D) a.nav
- Answer: B) nav a

13. Which pseudo-class targets the first child of a parent?

- A) :first-element
 - B) :first
 - C) :first-child
 - D) :start
- Answer: C) :first-child

14. Which CSS property changes list style?

- A) list-type
 - B) bullet-style
 - C) list-style
 - D) marker-type
- Answer: C) list-style

15. What does visibility: collapse do in a table?

- A) Makes the whole table disappear
- B) Collapses the border
- C) Removes row/column from display
- D) Hides cell but keeps space

Answer: C) Removes row/column from display

16. Which keyword makes a class override another?

- A) important
- B) !important
- C) override
- D) inherit

Answer: B) !important

17. Which property adds an image in the background?

- A) background-img
- B) background-image
- C) bg-image
- D) image-background

Answer: B) background-image

18. What is the default flex-direction?

- A) column
- B) row
- C) row-reverse
- D) column-reverse

Answer: B) row

19. Which property makes an element semi-transparent?

- A) transparency
- B) visible
- C) opacity
- D) alpha

Answer: C) opacity

20. Which CSS function is used to apply rotation?

- A) rotate()
- B) transform: rotate()
- C) animation-rotate()

D) spin()

Answer: B) transform: rotate()

JavaScript ES6 – 20 MCQs

21. Which function is used to delay execution in JavaScript?

A) delay()

B) sleep()

C) setTimeout()

D) wait()

Answer: C) setTimeout()

22. Which method returns the first element that satisfies a condition in an array?

A) filter()

B) find()

C) indexOf()

D) map()

Answer: B) find()

23. What does isNaN("5") return?

A) true

B) false

C) NaN

D) 5

Answer: B) false

24. What does the finally block do in try-catch?

A) Runs only on error

B) Skips execution

C) Always executes

D) Catches errors

Answer: C) Always executes

25. What is the result of [] == false in JS?

A) true

B) false
C) undefined
D) TypeError
Answer: A) true

26. Which keyword creates a class in JavaScript?

A) object
B) constructor
C) class
D) def
Answer: C) class

27. What does the includes() method return?

A) Index
B) Boolean
C) Element
D) Length
Answer: B) Boolean

28. Which operator checks both value and type?

A) ==
B) =
C) ===
D) !=
Answer: C) ===

29. What type does typeof [] return?

A) array
B) object
C) list
D) undefined
Answer: B) object

30. How do you define a default value in object destructuring?

- A) {x=5}
- B) {x: 5}
- C) {x = 5}
- D) {x || 5}

Answer: C) {x = 5}

31. What does the reduce() method return?

- A) New array
- B) Last value
- C) Accumulated result
- D) First element

Answer: C) Accumulated result

32. What is hoisting in JS?

- A) Pushing variables down
- B) Moving declarations to the top
- C) Loop optimization
- D) Memory management

Answer: B) Moving declarations to the top

33. What does the typeof null return?

- A) null
- B) object
- C) string
- D) undefined

Answer: B) object

34. Which method merges two arrays?

- A) append()
- B) concat()
- C) merge()
- D) add()

Answer: B) concat()

35. Which keyword is used to export a module?

- A) send
- B) release
- C) export
- D) push

Answer: C) export

36. What is the default return value of an arrow function without return?

- A) true
- B) undefined
- C) null
- D) 0

Answer: B) undefined

37. What is a closure in JS?

- A) A self-invoking function
- B) Function with global variables
- C) Function with preserved local scope
- D) Asynchronous function

Answer: C) Function with preserved local scope

38. Which method is used to convert an object to JSON?

- A) JSON.stringify()

B) JSON.parse()
C) toJSON()
D) encodeJSON()
Answer: A) JSON.stringify()

39. What is a promise?

A) Data holder
B) Syntax sugar
C) Handle async operations
D) Error handler
Answer: C) Handle async operations

40. Which operator is used for exponentiation?

A) ^
B) **
C) pow()
D) ^^
**Answer: B) **

React – 20 MCQs

41. What does useEffect() replace in class components?

A) this.state
B) componentDidMount & lifecycle methods
C) this.props
D) render()
Answer: B) componentDidMount & lifecycle methods

42. React components should return:

A) Single JSX element

- B) Multiple JSX siblings
- C) Strings only
- D) JSON

Answer: A) Single JSX element

43. What is a controlled component?

- A) Component with internal logic
- B) Component managed by Redux
- C) Form element controlled via state
- D) Stateless component

Answer: C) Form element controlled via state

44. Which hook manages context value in components?

- A) useReducer
- B) useEffect
- C) useContext
- D) useRef

Answer: C) useContext

45. Which package is needed for routing in React?

- A) react-router
- B) react-dom
- C) react-path
- D) react-navigate

Answer: A) react-router

46. Which prop is mandatory for rendering list items in React?

- A) id
- B) value
- C) key
- D) index

Answer: C) key

47. JSX allows you to write:

- A) JavaScript inside HTML
 - B) HTML inside JavaScript
 - C) XML inside CSS
 - D) JS inside JSON
- Answer: B) HTML inside JavaScript

48. What is the use of React.memo()?

- A) Create deep copy
 - B) Memoize component to avoid re-render
 - C) Connect Redux
 - D) Replace useState
- Answer: B) Memoize component to avoid re-render

49. What is the use of useRef hook?

- A) Read URL params
 - B) Fetch API
 - C) Reference DOM elements
 - D) Share context
- Answer: C) Reference DOM elements

50. Which method unmounts the component in class components?

- A) componentWillUnmount
 - B) componentDidUnmount
 - C) destroy()
 - D) unmount()
- Answer: A) componentWillUnmount

51. What is React Fragment used for?

- A) Store multiple files

- B) Return multiple elements without extra DOM
 - C) Add layout
 - D) Import libraries
- Answer: B) Return multiple elements without extra DOM

52. What does `setState()` do in class components?

- A) Updates local variables
 - B) Directly changes DOM
 - C) Schedules a state update
 - D) Re-renders without update
- Answer: C) Schedules a state update

53. What is a pure component?

- A) Stateless
 - B) Always re-renders
 - C) Avoids re-render if props/state didn't change
 - D) Static only
- Answer: C) Avoids re-render if props/state didn't change

54. How do you import React?

- A) import react from "React"
 - B) import React from "react"
 - C) require("react")
 - D) use react
- Answer: B) import React from "react"

55. What does `useMemo` do?

- A) Logs props

B) Optimizes computation
C) Handles lifecycle
D) Replaces useEffect
Answer: B) Optimizes computation

56. Which lifecycle is first triggered in class component?

A) render
B) componentDidMount
C) constructor
D) componentWillMount
Answer: C) constructor

57. How can props be passed in React?

A) Globally
B) From parent to child
C) From child to parent only
D) From sibling to sibling
Answer: B) From parent to child

58. What is used to apply inline styles in JSX?

A) style="color:red"
B) style={color: "red"}
C) style={{color: "red"}}
D) style("color: red")
Answer: C) style={{color: "red"}}

59. How do you handle form inputs in React?

A) DOM queries

B) useForm hook
C) onChange + useState
D) fetch inputs
Answer: C) onChange + useState

60. What is a higher-order component (HOC)?

A) Component with state
B) Function returning a component
C) React hook
D) Redux store
Answer: B) Function returning a component

CSS – 15 Questions

1. Which property is used to change the text color of an element?

A) background-color
B) text-style
C) color
D) font-color
Answer: C) color

2. How can you apply a class named "title" in HTML?

A) <p name="title">
B) <p id="title">
C) <p class="title">
D) <p style="title">
Answer: C) <p class="title">

3. Which CSS property changes the font style to italic?

A) font-weight

B) font-style
C) text-style
D) style-font
Answer: B) font-style

4. Which selector targets all <p> tags in a page?

A) #p
B) .p
C) *p
D) p
Answer: D) p

5. What does the z-index property do?

A) Sets background image
B) Controls stacking order of elements
C) Adds shadow
D) Sets text alignment
Answer: B) Controls stacking order of elements

6. How do you make text bold in CSS?

A) font-weight: bold
B) text-bold: yes
C) font: bold
D) style: bold
Answer: A) font-weight: bold

7. Which unit is relative to the root element's font size?

A) px

- B) rem
- C) em
- D) %

Answer: B) rem

8. Which property adds space inside the border of an element?

- A) margin
- B) border-spacing
- C) padding
- D) spacing

Answer: C) padding

9. How do you create a comment in CSS?

- A) // comment
- B) # comment
- C) /* comment */
- D) <!-- comment -->

Answer: C) / comment /

10. What property changes the cursor to a pointer on hover?

- A) mouse-pointer
- B) cursor: pointer
- C) onhover: pointer
- D) pointer: cursor

Answer: B) cursor: pointer

11. Which property controls the space between lines of text?

- A) text-spacing

B) line-spacing
C) line-height
D) height-line
Answer: C) line-height

12. What is the default value of the position property in CSS?

A) relative
B) static
C) absolute
D) fixed
Answer: B) static

13. Which value makes an element invisible but keeps its space?

A) hidden
B) display: none
C) opacity: 0
D) visibility: hidden
Answer: D) visibility: hidden

14. What value of display turns an element into a flex container?

A) flex-container
B) flex
C) inline-flex
D) grid
Answer: B) flex

15. Which media query syntax targets screen widths up to 600px?

A) @media screen and width <= 600px
B) @media screen(max-width: 600px)

C) @media (max-width: 600px)

D) @media width 600px

Answer: C) @media (max-width: 600px)

JavaScript ES6 – 15 Questions

16. What is the keyword for creating a constant in ES6?

A) let

B) constant

C) var

D) const

Answer: D) const

17. Which symbol is used for template literals in ES6?

A) "double quotes"

B) 'single quotes'

C) backticks

D) <>

Answer: C) backticks

18. What does the ... (spread operator) do in arrays?

A) Joins arrays

B) Reverses elements

C) Copies and expands elements

D) Loops through array

Answer: C) Copies and expands elements

19. What does let allow that var doesn't?

A) Global scope

B) Block scope
C) Function scope
D) Multiple declarations
Answer: B) Block scope

20. Which method is used to convert JSON string to an object?

A) JSON.parse()
B) JSON.stringify()
C) JSON.decode()
D) JSON.toObject()
Answer: A) JSON.parse()

21. What is returned by typeof null in JavaScript?

A) null
B) object
C) undefined
D) string
Answer: B) object

22. What is the result of [1,2,3].includes(2)?

A) true
B) false
C) null
D) error
Answer: A) true

23. What does Arrow Function syntax remove from traditional functions?

A) Variable declaration

B) return keyword
C) this binding
D) Function parameters
Answer: C) this binding

24. Which loop can be used to iterate over object properties?

A) for
B) while
C) for...in
D) for...of
Answer: C) for...in

25. What will typeof NaN return?

A) number
B) NaN
C) undefined
D) float
Answer: A) number

26. Which built-in method checks if a string starts with a specific character?

A) beginsWith()
B) startsWith()
C) hasStart()
D) initWith()
Answer: B) startsWith()

27. What is the default return value of a function that doesn't return anything?

A) false

- B) 0
 - C) null
 - D) undefined
- Answer: D) undefined

28. Which ES6 feature allows you to assign values from arrays or objects into variables?

- A) Spread operator
 - B) Destructuring
 - C) Templating
 - D) Binding
- Answer: B) Destructuring

29. What does map() do in JavaScript?

- A) Modifies the array in-place
 - B) Filters elements
 - C) Transforms elements and returns a new array
 - D) Reduces the array
- Answer: C) Transforms elements and returns a new array

30. How do you define default parameter values in a function?

- A) function test(x = 1)
 - B) function test(x == 1)
 - C) function test(default x = 1)
 - D) function test(x:1)
- Answer: A) function test(x = 1)

React.js – 10 Questions

31. What is React mainly used for?

- A) Backend development
- B) Styling web pages
- C) Building user interfaces
- D) Managing databases

Answer: C) Building user interfaces

32. What is JSX?

- A) JavaScript extended
- B) JavaScript with HTML syntax
- C) A JSON parser
- D) A React class

Answer: B) JavaScript with HTML syntax

33. Which method is used to render elements in React?

- A) `React.display()`
- B) `ReactDOM.show()`
- C) `ReactDOM.render()`
- D) `React.print()`

Answer: C) `ReactDOM.render()`

34. What hook is used to add state to a functional component?

- A) `useProps`
- B) `useState`
- C) `addState`
- D) `useEffect`

Answer: B) `useState`

35. Props in React are:

- A) Mutable
 - B) Global variables
 - C) Passed from parent to child
 - D) Internal state
- Answer: C) Passed from parent to child

36. What is the virtual DOM in React?

- A) A server-side DOM
 - B) A copy of real DOM to improve performance
 - C) A JSON version of DOM
 - D) A deprecated React feature
- Answer: B) A copy of real DOM to improve performance

37. In React, components must start with:

- A) react-
 - B) A lowercase letter
 - C) A capital letter
 - D) Any symbol
- Answer: C) A capital letter

38. Which hook is used for lifecycle events in functional components?

- A) useRef
 - B) useEffect
 - C) useMemo
 - D) useContext
- Answer: B) useEffect

39. Which file usually contains the root component in a React app?

A) index.html
B) App.css
C) App.js
D) server.js
Answer: C) App.js

40. React is:

A) A framework
B) A library
C) A browser
D) A database
Answer: B) A library

10 coding Questions

1. Reverse Digits

Input:

Enter a number: 12345

Output:

Reversed number: 54321

2. Count Vowels in a String

Input:

Enter a string: Hello World

Output:

Number of vowels: 3

3. Check Palindrome String

Input:

Enter a string: madam

Output:
Palindrome

Input:
Enter a string: hello

Output:
Not a palindrome

4. Find Maximum in a List

Input:
Enter numbers separated by space: 10 55 32 67 99 12

Output:
Maximum number: 99

5. Print Fibonacci Series up to N Terms

Input:
Enter the number of terms: 5

Output:
Fibonacci Series: 0 1 1 2 3

6. Sum of Digits

Input:
Enter a number: 987

Output:
Sum of digits: $9 + 8 + 7 = 24$

7. Print All Prime Numbers Between 1 and N

Input:
Enter a number: 10

Output:
Prime numbers: 2 3 5 7

8. Count Occurrence of Each Character in a String

Input:
Enter a string: banana

Output:

b: 1
a: 3
n: 2

9. Find Second Largest Number in a List

Input:
Enter numbers separated by space: 4 1 7 3 9 5

Output:
Second largest number: 7

10. Check if a Number is an Armstrong Number

Input:
Enter a number: 153

Output:
Armstrong number

Input:

Enter a number: 123

Output:

Not an Armstrong number