HTML Interview Questions

1. What is HTML?
2. What does DOCTYPE mean in HTML?
3. Explain the purpose of the <meta> tag.
4. What is the difference between HTML and XHTML?
5. What is semantic HTML?
6. Describe the difference between <div> and <span>.
7. Explain the use of the <canvas> element.
8. What are data attributes in HTML5?
9. What is the purpose of the alt attribute in the <img> tag?
10. How do you create a hyperlink in HTML?
11. What is the purpose of the <head> tag in HTML?
12. Explain the difference between <ol> and <ul> elements.
13. What is the significance of the lang attribute in HTML?
14. What is the purpose of the <form> element in HTML?
15. How does the target attribute work in HTML forms?

CSS Interview Questions

16. What is CSS and what does it stand for?
17. Explain the difference between inline, block, and inline-block elements.
18. Describe the box model in CSS.
19. What is the purpose of the `clear` property in CSS?
20. Explain the difference between `position: relative;` and `position: absolute;`.
21. What is the CSS selector specificity and how is it calculated?
22. How can you center an element horizontally and vertically using CSS?
23. Explain the purpose of the `float` property in CSS.
24. Describe the difference between padding and margin.

25. How does the `display: none;` property differ from `visibility: hidden;`?
26. What is a CSS preprocessor, and why might you use one?
27. What is the "box-sizing" property in CSS?
28. How do you include external stylesheets in HTML?
29. What is the difference between `em` and `rem` units in CSS?
30. How does the `z-index` property work in CSS?

JavaScript Interview Questions

31. What is JavaScript?
32. Explain the difference between `let`, `const`, and `var` in JavaScript.
33. Describe hoisting in JavaScript.
34. What is the purpose of the `this` keyword in JavaScript?
35. What are closures in JavaScript?
36. Explain the concept of prototypal inheritance in JavaScript.
37. How does event delegation work in JavaScript?
38. Describe the difference between `==` and `===` in JavaScript.
39. What is the purpose of the `async` keyword in JavaScript?
40. How do you handle errors in JavaScript?
41. Explain the concept of callback functions.
42. What is the difference between `null` and `undefined` in JavaScript?
43. Describe the role of the `bind` method in JavaScript.
44. What is the purpose of the `map` function in JavaScript?
45. Explain the concept of promises in JavaScript.
46. What is the event loop in JavaScript?
47. Describe the difference between `null`, `undefined`, and `undeclared` in JavaScript.
48. How do you create an object in JavaScript?
49. Explain the purpose of the `localStorage` and `sessionStorage` objects.
50. How does the `typeof` operator work in JavaScript?

HTML, CSS, and JavaScript Integration Question:-

51. How do you link a JavaScript file to an HTML file?
52. What is the purpose of the `defer` attribute in a script tag?
53. Explain how to include an external CSS file in an HTML document.
54. What is the importance of the `viewport` meta tag in responsive design?
55. Describe the purpose of the `@media` rule in CSS.
56. How do you include external JavaScript libraries in your project?
57. Explain the purpose of the `<!DOCTYPE html>` declaration in HTML5.
58. How can you optimize website performance using CSS and JavaScript?
59. What is the purpose of the `lang` attribute in the `<script>` tag?
60. How do you handle browser compatibility issues in CSS and JavaScript?

Responsive Design and CSS Frameworks

Question:-

61. What is responsive design?
62. Explain the difference between adaptive and responsive design.
63. Describe the purpose of media queries in CSS.
64. What is a CSS framework, and why might you use one?
65. How does a CSS grid system work in responsive design?
66. Explain the concept of a mobile-first approach in web development.
67. What is the importance of the `viewport` meta tag in responsive design?
68. How can you make a website accessible to users with disabilities?
69. What is the purpose of the `rem` unit in responsive design?
70. Explain the role of the `max-width` property in responsive design.

DOM Manipulation and Events Question:-

71.   What is the DOM?
72.   How do you select elements with JavaScript in the DOM?
73.   Explain the difference between `innerHTML` and `textContent`.
74.   How does event delegation work in JavaScript?
75.   What is the purpose of the `addEventListener` method?
76.   How do you prevent the default behavior of an event in JavaScript?
77.   Describe the difference between the `focus` and `blur` events.
78.   Explain the purpose of the `event.stopPropagation()` method.
79.   How can you dynamically create elements in the DOM with JavaScript?
80.   What is the purpose of the `data-*` attributes in HTML5?

JavaScript ES6+ Features Question:-

81.   What are the arrow functions in JavaScript?
82.   Describe the `let` and `const` keywords introduced in ES6.
83.   What is destructuring assignment in JavaScript?
84.   Explain the purpose of the `template literals` in ES6.
85.   What are the `let` and `const` keywords in ES6?
86.   How do you use the `import` and `export` statements in ES6?
87.   What is the purpose of the spread operator (`...`) in JavaScript?
88.   Describe the `class` syntax in ES6 and how it relates to object-oriented programming.
89.   Explain the concept of promises and the `async/await` syntax in JavaScript.
90.   What are the rest parameters in JavaScript?

Performance Optimization Question:

91.   How do you optimize the loading time of a web page?
92.   Explain the concept of lazy loading in web development.
93.   What is the purpose of bundling and minification in web development?

94. How can you reduce the number of HTTP requests on a web page?
95. Describe the importance of using a content delivery network (CDN).
96. What is tree shaking in the context of JavaScript and bundling?
97. Explain the difference between synchronous and asynchronous loading of scripts.
98. How can you optimize images for a web page?
99. Describe the significance of using the `rel="preload"` attribute.
100. What is the purpose of the "defer" attribute in a script tag, and how does it affect page loading?

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