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Question **1**

Not yet answered

Marked out of 1.00

How do you center an element horizontally in CSS?

○ a.   horizontal-align: center;

○ b.   text-align: center;

○ c.   center: horizontal;

○ d.   align: center;

Question **2**

Not yet answered

Marked out of 1.00

How do you include a JavaScript file in an HTML document?

○ a.   <script src="script.js"></script>

○ b.   <js src="script.js"></js>

○ c.   <script>script.js</script>

○ d.   <javascript>script.js</javascript>

Question **3**

Not yet answered

Marked out of 1.00

How do you make a website responsive using CSS Grid?

○ a.   By using the grid property

○ b.   By using only percentages for dimensions

○ c.   By setting the viewport width to 100%

○ d.   By setting a fixed width for all elements

Question **4**

Not yet answered

Marked out of 1.00

How do you make text italic in CSS?

○ a.   italic: true;

○ b.   font-style: italic;

○ c.   text-decoration: italic;

○ d.   style: italic;

Question **5**

Not yet answered

Marked out of 1.00

How do you write an IF statement in JavaScript?

- a. if x = 5 { ... }
- b. if x = 5 then { ... }
- c. if x === 5 then { ... }
- d. if (x === 5) { ... }

Question **6**

Not yet answered

Marked out of 1.00

In a web application, which data structure is ideal for implementing a breadcrumb navigation?

- a. Array
- b. Stack
- c. Linked List
- d. Queue

Question **7**

Not yet answered

Marked out of 1.00

In JavaScript, which method would you use to merge two arrays?

- a. join()
- b. merge()
- c. concat()
- d. combine()

Question **8**

Not yet answered

Marked out of 1.00

What does the `alt` attribute in an `<img>` tag specify?

- a. Alternative text for the image
- b. Image source
- c. Image alignment
- d. Image size

Question **9**

Not yet answered

Marked out of 1.00

What does the `innerHTML` property do in JavaScript?

- a. Gets the content of an HTML element
- b. Changes the content of an HTML element
- c. Removes an HTML element
- d. Adds a new HTML element

Question **10**

Not yet answered

Marked out of 1.00

What does the `typeof` operator in JavaScript return?

- a. The length of a variable
- b. The type of a variable
- c. The name of a variable
- d. The value of a variable

Question **11**

Not yet answered

Marked out of 1.00

What does the CSS property `flex-grow` do?

- a. Determines the size of a flex container
- b. Sets the initial size of a flex item
- c. Defines the flexibility of a flex item
- d. Specifies the order of a flex item

Question **12**

Not yet answered

Marked out of 1.00

What does the CSS property `overflow: hidden;` do?

- a. Resizes the element dynamically
- b. Displays the overflow content of an element
- c. Hides the overflow content of an element
- d. Clips the content without adding scrollbars

Question **13**

Not yet answered

Marked out of 1.00

What is the correct way to write a JavaScript array?

- ○ a. var colors = "red", "green", "blue";
- ○ b. var colors = ["red", "green", "blue"];
- ○ c. colors = ["red", "green", "blue"];
- ○ d. colors = "red", "green", "blue";

Question **14**

Not yet answered

Marked out of 1.00

What is the output of the following code?

let a = [1, 2, 3]; let b = [...a, 4]; console.log(b);

- ○ a. [4, 1, 2, 3]
- ○ b. [1, 2, 3]
- ○ c. [1, 2, 3, 4]
- ○ d. [2, 3, 4]

Question **15**

Not yet answered

Marked out of 1.00

What is the primary advantage of using a binary heap?

- ○ a. Simple implementation
- ○ b. Faster searching
- ○ c. Lower memory consumption
- ○ d. Efficiently implements priority queues

Question **16**

Not yet answered

Marked out of 1.00

What is the purpose of media queries in CSS?

- ○ a. To change the font size of an element
- ○ b. To add animations to an element
- ○ c. To modify the HTML structure
- ○ d. To apply styles based on screen size

Question **17**

Not yet answered

Marked out of 1.00

What is the purpose of the `title` attribute in an `<a>` tag?

- ○ a.   Sets the text color of the hyperlink
- ○ b.   Defines alternative text for the hyperlink
- ○ c.   Provides a title for the hyperlink
- ○ d.   Specifies the target of the hyperlink

Question **18**

Not yet answered

Marked out of 1.00

What is the purpose of the `viewport` meta tag in HTML?

- ○ a.   To disable zooming on the webpage
- ○ b.   To specify the browser's rendering engine
- ○ c.   To set the initial scale of the viewport
- ○ d.   To define the width of the viewport

Question **19**

Not yet answered

Marked out of 1.00

What is the purpose of the CSS property `box-shadow`?

- ○ a.   Adds a border to an element
- ○ b.   Sets the size of an element
- ○ c.   Adds a shadow to an element
- ○ d.   Changes the color of an element

Question **20**

Not yet answered

Marked out of 1.00

What will the following JavaScript code output?

let nums = [1, 2, 3, 4, 5]; console.log(nums.slice(1, 3));

- ○ a.   [1, 2]
- ○ b.   [2, 3]
- ○ c.   [1, 2, 3]
- ○ d.   [2, 3, 4]

Question **21**

Not yet answered

Marked out of 1.00

Which algorithm is commonly used for sorting an array in place?

○ a. Merge Sort

○ b. Quick Sort

○ c. Bubble Sort

○ d. Selection Sort

Question **22**

Not yet answered

Marked out of 1.00

Which algorithm is generally used to traverse a binary tree?

○ a. Depth-First Search

○ b. None of the above

○ c. Both A and B

○ d. Breadth-First Search

Question **23**

Not yet answered

Marked out of 1.00

Which CSS property is used to change the layout of elements based on the viewport width?

○ a. grid-template-columns

○ b. media-query

○ c. flex-direction

○ d. viewport-layout

Question **24**

Not yet answered

Marked out of 1.00

Which CSS property is used to control the order of overlapping elements?

○ a. layer

○ b. z-index

○ c. order

○ d. stacking-order

Question **25**

Not yet answered

Marked out of 1.00

Which CSS property is used to create a transition effect?

- ⚪ a. transition
- ⚪ b. transition-duration
- ⚪ c. transition-property
- ⚪ d. transition-effect

Question **26**

Not yet answered

Marked out of 1.00

Which data structure allows duplicate elements?

- ⚪ a. Array
- ⚪ b. Dictionary
- ⚪ c. Stack
- ⚪ d. Set

Question **27**

Not yet answered

Marked out of 1.00

Which HTML tag is used to create a hyperlink?

- ⚪ a. <link>
- ⚪ b. <a>
- ⚪ c. <href>
- ⚪ d. <hyperlink>

Question **28**

Not yet answered

Marked out of 1.00

Which method can be used to remove the last element from an array in JavaScript?

- ⚪ a. shift()
- ⚪ b. pop()
- ⚪ c. remove()
- ⚪ d. delete()

Question **29**

Not yet answered

Marked out of 1.00

Which of the following is NOT a characteristic of a queue?

- ○ a. FIFO (First In First Out)
- ○ b. Enqueue operation
- ○ c. Dequeue operation
- ○ d. LIFO (Last In First Out)

Question **30**

Not yet answered

Marked out of 1.00

Which operator is used to assign a value to a variable in JavaScript?

- ○ a. ==
- ○ b. !=
- ○ c. ===
- ○ d. =

◄ program3 (hidden)

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