

**Started on** Tuesday, 25 March 2025, 2:35 PM**State** Finished**Completed on** Tuesday, 25 March 2025, 2:43 PM**Time taken** 7 mins 58 secs**Marks** 30.00/30.00**Grade** 100.00 out of 100.00**Question 1**

Complete

Mark 1.00 out of 1.00

Which data structure allows duplicate elements?

- ☐ a. Dictionary
- ☒ b. Stack
- ☒ c. Array
- ☐ d. Set

**Question 2**

Complete

Mark 1.00 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 3**

Complete

Mark 1.00 out of 1.00

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

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

**Question 4**

Complete

Mark 1.00 out of 1.00

How do you make text italic in CSS?

- ☐ a. text-decoration: italic;
- ☐ b. italic: true;
- ☒ c. font-style: italic;
- ☐ d. style: italic;

**Question 5**

Complete

Mark 1.00 out of 1.00

What is the correct way to write a JavaScript array?

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

**Question 6**

Complete

Mark 1.00 out of 1.00

Which algorithm is generally used to traverse a binary tree?

- ☒ a. Both
- ☐ b. Depth-First Search
- ☐ c. Breadth-First Search
- ☐ d. None of the above

**Question 7**

Complete

Mark 1.00 out of 1.00

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

- ☐ a. order
- ☐ b. layer
- ☐ c. stacking-order
- ☒ d. z-index

**Question 8**

Complete

Mark 1.00 out of 1.00

Which HTML tag is used to create a hyperlink?

- ☐ a. <link>
- ☒ b. <a>
- ☐ c. <hyperlink>
- ☐ d. <href>

**Question 9**

Complete

Mark 1.00 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, 3]
- ☐ b. [1, 2]
- ☒ c. [2, 3]
- ☐ d. [2, 3, 4]

**Question 10**

Complete

Mark 1.00 out of 1.00

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

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

**Question 11**

Complete

Mark 1.00 out of 1.00

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

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

**Question 12**

Complete

Mark 1.00 out of 1.00

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

- ☐ a. Merge Sort
- ☐ b. Selection Sort
- ☒ c. Quick Sort
- ☐ d. Bubble Sort

**Question 13**

Complete

Mark 1.00 out of 1.00

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

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

**Question 14**

Complete

Mark 1.00 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) { ... }
- ☐ d. if x = 5 then { ... }

**Question 15**

Complete

Mark 1.00 out of 1.00

Which CSS property is used to create a transition effect?

- ☒ a. transition-property
- ☐ b. transition-effect
- ☐ c. transition
- ☐ d. transition-duration

**Question 16**

Complete

Mark 1.00 out of 1.00

How do you center an element horizontally in CSS?

- ☐ a. center: horizontal;
- ☐ b. align: center;
- ☒ c. text-align: center;
- ☐ d. horizontal-align: center;

**Question 17**

Complete

Mark 1.00 out of 1.00

How do you make a website responsive using CSS Grid?

- ☐ a. By setting a fixed width for all elements
- ☒ b. By setting the viewport width to 100%
- ☐ c. By using the grid property
- ☐ d. By using only percentages for dimensions

**Question 18**

Complete

Mark 1.00 out of 1.00

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

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

**Question 19**

Complete

Mark 1.00 out of 1.00

What is the primary advantage of using a binary heap?

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

**Question 20**

Complete

Mark 1.00 out of 1.00

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

- ☐ a. ==
- ☒ b. =
- ☐ c. !=
- ☐ d. ===

**Question 21**

Complete

Mark 1.00 out of 1.00

What is the purpose of media queries in CSS?

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

**Question 22**

Complete

Mark 1.00 out of 1.00

What does the `innerHTML` property do in JavaScript?

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

**Question 23**

Complete

Mark 1.00 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 24**

Complete

Mark 1.00 out of 1.00

What does the `typeof` operator in JavaScript return?

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

**Question 25**

Complete

Mark 1.00 out of 1.00

What does the `alt` attribute in an `` tag specify?

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

**Question 26**

Complete

Mark 1.00 out of 1.00

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

- ☒ a. `<script src="script.js"> </script>`
- ☐ b. `<script>script.js</script>`
- ☐ c. `<javascript>script.js</javascript>`
- ☐ d. `<js src="script.js"> </js>`

**Question 27**

Complete

Mark 1.00 out of 1.00

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

- ☒ a. media-query
- ☐ b. grid-template-columns
- ☐ c. viewport-layout
- ☐ d. flex-direction

**Question 28**

Complete

Mark 1.00 out of 1.00

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

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

**Question 29**

Complete

Mark 1.00 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. Specifies the order of a flex item
- ☒ d. Defines the flexibility of a flex item

**Question 30**

Complete

Mark 1.00 out of 1.00

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

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