

Started on Tuesday, 25 March 2025, 2:36 PM**State** Finished**Completed on** Tuesday, 25 March 2025, 2:44 PM**Time taken** 8 mins 30 secs**Marks** 23.00/30.00**Grade** 76.67 out of 100.00**Question 1**

Complete

Mark 1.00 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 2

Complete

Mark 0.00 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 3

Complete

Mark 1.00 out of 1.00

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

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

Question 4

Complete

Mark 1.00 out of 1.00

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

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

Question 5

Complete

Mark 1.00 out of 1.00

What does the `typeof` operator in JavaScript return?

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

Question 6

Complete

Mark 1.00 out of 1.00

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

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

Question 7

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

Question 8

Complete

Mark 0.00 out of 1.00

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

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

Question 9

Complete

Mark 0.00 out of 1.00

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

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

Question 10

Complete

Mark 1.00 out of 1.00

What does the `innerHTML` property do in JavaScript?

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

Question 11

Complete

Mark 0.00 out of 1.00

How do you center an element horizontally in CSS?

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

Question 12

Complete

Mark 1.00 out of 1.00

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

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

Question 13

Complete

Mark 0.00 out of 1.00

What is the primary advantage of using a binary heap?

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

Question 14

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

Question 15

Complete

Mark 1.00 out of 1.00

How do you make text italic in CSS?

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

Question 16

Complete

Mark 1.00 out of 1.00

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

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

Question 17

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 18

Complete

Mark 0.00 out of 1.00

How do you make a website responsive using CSS Grid?

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

Question 19

Complete

Mark 1.00 out of 1.00

Which HTML tag is used to create a hyperlink?

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

Question 20

Complete

Mark 1.00 out of 1.00

Which data structure allows duplicate elements?

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

Question 21

Complete

Mark 0.00 out of 1.00

Which CSS property is used to create a transition effect?

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

Question 22

Complete

Mark 1.00 out of 1.00

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

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

Question 23

Complete

Mark 1.00 out of 1.00

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

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

Question 24

Complete

Mark 1.00 out of 1.00

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

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

Question 25

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

Question 26

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. var colors = "red", "green", "blue";
- ☐ d. colors = "red", "green", "blue";

Question 27

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. Specifies the order of a flex item
- ☒ c. Defines the flexibility of a flex item
- ☐ d. Sets the initial size of a flex item

Question 28

Complete

Mark 1.00 out of 1.00

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

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

Question 29

Complete

Mark 1.00 out of 1.00

Which algorithm is generally used to traverse a **binary tree**?

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

Question 30

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. ===