Started on	Tuesday, 25 March 2025, 2:35 PM
State	Finished
Completed on	Tuesday, 25 March 2025, 2:42 PM
Time taken	7 mins 31 secs
Marks	25.00/30.00
Grade	**83.33** out of 100.00

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

Question 2
Complete
Mark 1.00 out of 1.00

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

- ○ a. <script>script.js</script>
- ◉ b. <script src="script.js"></script>
- ○ c. <javascript>script.js</javascript>
- ○ d. <js src="script.js"></js>

Question 3
Complete
Mark 0.00 out of 1.00

Which CSS property is used to create a transition effect?

- ○ a. transition-property
- ○ b. transition-duration
- ◉ c. transition
- ○ d. transition-effect

Question 4

Complete

Mark 1.00 out of 1.00

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

○ a.   concat()

○ b.   combine()

○ c.   join()

○ d.   merge()

Question 5

Complete

Mark 1.00 out of 1.00

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

○ a.   Provides a title for the hyperlink

○ b.   Specifies the target of the hyperlink

○ c.   Defines alternative text for the hyperlink

○ d.   Sets the text color of the hyperlink

Question 6

Complete

Mark 1.00 out of 1.00

How do you make text italic in CSS?

○ a.   italic: true;

○ b.   font-style: italic;

○ c.   style: italic;

○ d.   text-decoration: italic;

Question 7

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]

○ b.   [2, 3]

○ c.   [2, 3, 4]

○ d.   [1, 2, 3]

Question 8

Complete

Mark 1.00 out of 1.00

Which algorithm is generally used to traverse a binary tree?

   ○ a. None of the above

   ◉ b. Both

   ○ c. Breadth-First Search

   ○ d. Depth-First Search

Question 9

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 10

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 11

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. FIFO (First In First Out)

   ○ c. Enqueue operation

   ○ d. Dequeue operation

Question 12

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. Adds a border to an element
- ○ d. Changes the color of an element

Question 13

Complete

Mark 1.00 out of 1.00

What is the primary advantage of using a binary heap?

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

Question 14

Complete

Mark 1.00 out of 1.00

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

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

Question 15

Complete

Mark 0.00 out of 1.00

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

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

Question 16

Complete

Mark 1.00 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 17

Complete

Mark 0.00 out of 1.00

How do you make a website responsive using CSS Grid?

○ a. By using only percentages for dimensions

◉ b. By setting a fixed width for all elements

○ c. By using the grid property

○ d. By setting the viewport width to 100%

Question 18

Complete

Mark 0.00 out of 1.00

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

○ a. Defines the flexibility of a flex item

◉ b. Sets the initial size of a flex item

○ c. Specifies the order of a flex item

○ d. Determines the size of a flex container

Question 19

Complete

Mark 0.00 out of 1.00

What does the `innerHTML` property do in JavaScript?

◉ a. Gets the content of an HTML element

○ b. Adds a new HTML element

○ c. Changes the content of an HTML element

○ d. Removes an HTML element

Question 20

Complete

Mark 1.00 out of 1.00

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

- ○ a. Quick Sort
- ○ b. Merge Sort
- ○ c. Selection Sort
- ○ d. Bubble Sort

Question 21

Complete

Mark 1.00 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 size
- ○ d. Image alignment

Question 22

Complete

Mark 1.00 out of 1.00

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

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

Question 23

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. grid-template-columns
- ○ b. flex-direction
- ○ c. viewport-layout
- ○ d. media-query

Question 24

Complete

Mark 1.00 out of 1.00

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

○ a. order

◉ b. z-index

○ c. layer

○ d. stacking-order

Question 25

Complete

Mark 1.00 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 value of a variable

○ d. The name of a variable

Question 26

Complete

Mark 1.00 out of 1.00

Which data structure allows duplicate elements?

☐ a. Dictionary

☐ b. Set

☑ c. Stack

☑ d. Array

Question 27

Complete

Mark 1.00 out of 1.00

How do you write an IF statement in JavaScript?

○ a. if x === 5 then { … }

◉ b. if (x === 5) { … }

○ c. if x = 5 { … }

○ d. if x = 5 then { … }

Question 28

Complete

Mark 1.00 out of 1.00

What is the purpose of media queries in CSS?

○ a.   To modify the HTML structure

○ b.   To add animations to an element

○ c.   To change the font size of an element

◉ d.   To apply styles based on screen size

Question 29

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

Question 30

Complete

Mark 1.00 out of 1.00

Which HTML tag is used to create a hyperlink?

◉ a.   <a>

○ b.   <href>

○ c.   <link>

○ d.   <hyperlink>