# Randomly Selected Questions - Set 4

**Question 1 (ID: 1.3.5):** Multiple Answers: Select all the HTML elements that are italicized by default:   
- (A) <em>   
- (B) <strong>   
- (C) <cite>   
- (D) <i>

**Question 2 (ID: 3.8.6):** Short Answer: How would you loop through all the elements of an array using a for-of loop in JavaScript? Provide a general code snippet.

**Question 3 (ID: 2.6.1):** Multiple Choice: Which character is used to specify the universal selector in CSS?  
- (A) Dollar sign ($)  
- (B) Asterisk (\*)  
- (C) Hash (#)  
- (D) Ampersand (&)

**Question 4 (ID: 3.8.9):** Short Answer: When an array is passed to a function, what is actually being passed in terms of memory?

**Question 5 (ID: 4.7.8):** Multiple Choice: What DOM method would you use to remove an element’s attribute?  
- (A) removeAttribute  
- (B) setAttribute  
- (C) getAttribute  
- (D) modifyAttribute

**Question 6 (ID: 4.8.2):** Multiple Answer: Which of the following are properties used to access a node's sibling nodes in the DOM? (Select all that apply.)  
- (A) previousElementSibling  
- (B) nextElementSibling  
- (C) parentNode  
- (D) children

**Question 7 (ID: 3.1.9):** Fill in the blanks: JavaScript requires that a variable be declared before it is assigned a value. This is typically done using the \_\_\_ keyword for variables, and the \_\_\_ keyword for constants.

**Question 8 (ID: 3.9.7):** Multiple Answer: Which of the following statements are true about passing objects to functions in JavaScript?  
- (A) A copy of the object is passed.  
- (B) Both parameters and arguments refer to the same object.  
- (C) Changing parameter properties also changes argument properties.  
- (D) Changing parameter references assigns a new object to the argument.

**Question 9 (ID: 3.6.10):** Fill in the Blank: A function that is missing a return statement returns \_\_\_\_\_\_.  
- Answer: undefined

**Question 10 (ID: 4.5.1):** Multiple Choice: What styling property is used to ensure all labels have the same width and margin in forms?  
- (A) width: 100%;  
- (B) display: inline-block;  
- (C) text-align: center;  
- (D) display: flex;

**Question 11 (ID: 3.8.10):** Multiple Choice: Which method can be used to remove the first array element and return it?  
- (A) `shift()`  
- (B) `unshift()`  
- (C) `splice()`  
- (D) `pop()`

**Question 12 (ID: 1.7.3):** Multiple Choice: Which of the following URLs uses the `mailto` scheme?  
- (A) `https://example.com`  
- (B) `ftp://example.com`  
- (C) `mailto:info@example.com`  
- (D) `file://example.com`

**Question 13 (ID: 1.8.3):** Fill in the blank: The <div> element is a generic element for creating \_\_\_\_\_\_\_ containers.

**Question 14 (ID: 2.4.7):** Multiple Choice: Which CSS property is commonly used to remove the default underline from links?  
- (A) text-transform  
- (B) text-decoration  
- (C) text-indent  
- (D) text-align

**Question 15 (ID: 2.5.8):** Multiple Choice: Which element displays a transparent area using the background color of the parent element?  
- (A) Content  
- (B) Padding  
- (C) Border  
- (D) Margin

**Question 16 (ID: 1.5.5):** Multiple Choice: Which image format supports animation and uses lossless compression?   
- (A) JPEG   
- (B) PNG   
- (C) GIF   
- (D) SVG

**Question 17 (ID: 3.7.3):** Short Answer: What type of error occurs when attempting to access a variable declared with 'let' outside its block scope?

**Question 18 (ID: 2.7.4):** Multiple Choice: Which CSS property allows flex items to wrap onto multiple rows when the container's width is insufficient?  
- (A) `flex-direction`  
- (B) `justify-content`  
- (C) `flex-wrap`  
- (D) `align-items`

**Question 19 (ID: 3.10.3):** Short Answer: What JavaScript object method returns an array of an object's property names?

**Question 20 (ID: 2.5.10):** Multiple Choice: If two vertically stacked block elements have margins, how does CSS handle their margins?  
- (A) Adds both margins together  
- (B) The larger margin is applied  
- (C) The smaller margin is applied  
- (D) Margins are ignored

**Question 21 (ID: 3.11.8):** Fill in the blank: The \_\_\_\_\_\_\_\_ method splits a string into an array of strings based on a specified delimiter.

**Question 22 (ID: 4.11.10):** Multiple Choice: What happens if a browser does not support a particular HTML input element used for validation?  
- (A) The browser crashes  
- (B) The unsupported element is transformed into a text input  
- (C) JavaScript automatically takes over validation  
- (D) The form submission is blocked

**Question 23 (ID: 3.5.4):** Short Answer: List the numbers output by the following code segment:  
  
```javascript  
let c = 100;  
while (c > 0) {  
 console.log(c);  
 c -= 10;  
}  
```

**Question 24 (ID: 1.3.7):** Short Answer: What is the purpose of using the <section> element in HTML?

**Question 25 (ID: 1.5.1):** Multiple Choice: What is the main use of the `<img>` element in HTML?   
- (A) To define a paragraph   
- (B) To create a hyperlink   
- (C) To display an image   
- (D) To define a list

**Question 26 (ID: 2.7.2):** Fill in the Blank: The CSS property used to define the direction of flex items within a flex container is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Question 27 (ID: 3.4.7):** Short Answer: What will be the output when the following code is executed?  
  
```javascript  
let age = 16;  
let result = age >= 18 ? "adult" : "minor";  
console.log(result);  
```

**Question 28 (ID: 3.6.2):** Fill in the Blank: JavaScript functions are declared using the \_\_\_\_\_\_ keyword followed by the function name and parameter list in parentheses.  
- Answer: function

**Question 29 (ID: 1.9.3):** Multiple Choice: When wanting to create a table header cell, which HTML element is appropriate?  
- (A) <caption>  
- (B) <thead>  
- (C) <th>  
- (D) <td>

**Question 30 (ID: 4.11.3):** Multiple Choice: Which JavaScript method is used to prevent a form from being submitted if validation fails?  
- (A) stopPropagation()  
- (B) stopDefault()  
- (C) preventDefault()  
- (D) cancelEvent()

**Question 31 (ID: 3.4.3):** Multiple Answers: Which of the following are falsy values in JavaScript? (Select all that apply)   
- (A) 0   
- (B) "false"   
- (C) null   
- (D) undefined

**Question 32 (ID: 3.5.9):** Multiple Choice: What is the key part of a for loop that is evaluated at the end of each iteration?  
- (A) Initialization  
- (B) Condition  
- (C) Final expression  
- (D) Loop body execution

**Question 33 (ID: 4.6.6):** Multiple Choice: In the console object, which method is used to display errors?  
- (A) console.log()  
- (B) console.warn()  
- (C) console.error()  
- (D) console.dir()

**Question 34 (ID: 4.2.10):** Fill in the Blank: The regex pattern that matches any string beginning with one or more digits followed by "star," with possible spaces between the letters of "star," is written as \_\_\_\_\_\_.

**Question 35 (ID: 2.7.9):** Short Answer: Describe the effect of setting the `justify-content` property to `space-around` in a flex container.

**Question 36 (ID: 2.6.2):** Short Answer: In CSS, how do you specify a child selector?

**Question 37 (ID: 1.6.9):** Fill in the blank: To meet the HTML Living Standard, a nested list should be placed \_\_\_\_\_ an item's <li> and </li> tags.   
- INSIDE

**Question 38 (ID: 3.3.9):** Multiple Answers: Which of the following describe logical operators in JavaScript?  
- (A) && - true if both sides are true  
- (B) || - true if both sides are true  
- (C) ! - true if expression is not true  
- (D) && - true if either side is true

**Question 39 (ID: 2.7.5):** Short Answer: Explain what the `flex-basis` property does in the context of a flex item.

**Question 40 (ID: 2.2.6):** Multiple Choice: If you have a class attribute on an HTML element as <span class="info highlight">, which CSS selector would correctly select this element?  
- (A) .info.highlight  
- (B) .info .highlight  
- (C) info.highlight  
- (D) .highlight.info

**Question 41 (ID: 1.5.9):** Multiple Choice: Which statement about the width and height attributes of an `<img>` element is true?   
- (A) Specifying both width and height will always maintain the image’s original aspect ratio.   
- (B) Specifying only the width will adjust the height automatically to maintain the aspect ratio.   
- (C) Specifying the height will stretch the image regardless of the width setting.   
- (D) Specifying both will never alter the image’s appearance.

**Question 42 (ID: 2.6.3):** Multiple Choice: What is the function of a multiple selector in CSS?  
- (A) To apply unique styles to a single element  
- (B) To combine several selectors to apply the same style to all listed elements  
- (C) To reset browser default styles  
- (D) To select elements based on their ID

**Question 43 (ID: 1.3.6):** Fill in the Blank: Headings in an HTML document range from <h1> to <h\_\_>, with <h1> being the largest and generally used for the main title of the document.

**Question 44 (ID: 4.10.2):** Multiple Choice: How can JavaScript modify an element's background color to "red" using inline styles?  
- (A) element.setStyle("background-color", "red")  
- (B) element.style.setProperty("background", "red")  
- (C) element.style.backgroundColor = "red"  
- (D) element.updateStyle("backgroundColor", "red")

**Question 45 (ID: 2.6.6):** Multiple Answers: Which of the following are combinators in CSS? Select all that apply.  
- (A) Universal selector  
- (B) Descendant selector  
- (C) Child selector  
- (D) Adjacent sibling selector

**Question 46 (ID: 1.10.7):** Multiple Choice: Which HTML entity correctly displays the ampersand character (&) when it does not start an entity name?  
- (A) &amp;  
- (B) &cet;  
- (C) &and;  
- (D) &anp;

**Question 47 (ID: 3.11.1):** Multiple Choice: What method returns the character at a specified index in a string as a string?  
- (A) substring()  
- (B) indexOf()  
- (C) charAt()  
- (D) trim()

**Question 48 (ID: 4.10.3):** Fill in the blank: The method \_\_\_\_\_\_\_\_\_\_\_\_\_ is used to set the value of an element's CSS property.

**Question 49 (ID: 3.7.8):** Short Answer: What keyword should you use to ensure a variable inside a function does not accidentally become a global variable?

**Question 50 (ID: 2.4.9):** Multiple Answers: Which of the following are considered relative size units in CSS? (Select all that apply)  
- (A) cm  
- (B) em  
- (C) rem  
- (D) vh

# Answers

**Answer to Question 1:** (A) <em>, (C) <cite>, (D) <i>

**Answer to Question 2:** for (let item of arrayName) { console.log(item); }

**Answer to Question 3:** (B) Asterisk (\*)

**Answer to Question 4:** A reference to the memory where the array is stored is passed.

**Answer to Question 5:** (A) removeAttribute

**Answer to Question 6:** (A) previousElementSibling, (B) nextElementSibling

**Answer to Question 7:** let; const

**Answer to Question 8:** (B), (C)

**Answer to Question 9:** undefined

**Answer to Question 10:** (B) display: inline-block;

**Answer to Question 11:** (A) `shift()`

**Answer to Question 12:** (C) `mailto:info@example.com`

**Answer to Question 13:** block

**Answer to Question 14:** (B) text-decoration

**Answer to Question 15:** (D) Margin

**Answer to Question 16:** (C) GIF

**Answer to Question 17:** ReferenceError

**Answer to Question 18:** (C) `flex-wrap`

**Answer to Question 19:** Object.keys()

**Answer to Question 20:** (B) The larger margin is applied

**Answer to Question 21:** split

**Answer to Question 22:** (B) The unsupported element is transformed into a text input

**Answer to Question 23:** 100, 90, 80, 70, 60, 50, 40, 30, 20, 10

**Answer to Question 24:** The <section> element is used to create a collection of related content, helping to organize the document into sections.

**Answer to Question 25:** (C) To display an image

**Answer to Question 26:** The CSS property used to define the direction of flex items within a flex container is called the `flex-direction`.

**Answer to Question 27:** "minor"

**Answer to Question 28:** function

**Answer to Question 29:** (C) <th>

**Answer to Question 30:** (C) preventDefault()

**Answer to Question 31:** (A) 0, (C) null, (D) undefined

**Answer to Question 32:** (C) Final expression

**Answer to Question 33:** (C) console.error()

**Answer to Question 34:** \d+\s\*s\s\*t\s\*a\s\*r

**Answer to Question 35:** Setting `justify-content` to `space-around` distributes the flex items evenly with equal space around them within the flex container.

**Answer to Question 36:** A child selector is specified in CSS using a greater-than character (>): `parent > child`.

**Answer to Question 37:** INSIDE

**Answer to Question 38:** (A) && - true if both sides are true, (C) ! - true if expression is not true

**Answer to Question 39:** The `flex-basis` property sets the initial length of a flex item, either as a fixed size or as a percentage of the container's size.

**Answer to Question 40:** (A) .info.highlight

**Answer to Question 41:** (B) Specifying only the width will adjust the height automatically to maintain the aspect ratio.

**Answer to Question 42:** (B) To combine several selectors to apply the same style to all listed elements

**Answer to Question 43:** 6

**Answer to Question 44:** (C) element.style.backgroundColor = "red"

**Answer to Question 45:** (B) Descendant selector, (C) Child selector, (D) Adjacent sibling selector

**Answer to Question 46:** (A) &amp;

**Answer to Question 47:** (C) charAt()

**Answer to Question 48:** setProperty()

**Answer to Question 49:** let

**Answer to Question 50:** (B) em, (C) rem, (D) vh