# Randomly Selected Questions - Set 3

**Question 1 (ID: 2.1.3):** Multiple Choice: What does the 'Cascading' in Cascading Style Sheets (CSS) primarily describe?  
 - (A) The priority scheme that determines which style rules apply to an element  
 - (B) The method by which styles are passed from parent to child elements  
 - (C) The flow of styles as they appear from top to bottom in a stylesheet  
 - (D) Both (A) and (B)

**Question 2 (ID: 2.3.4):** Multiple Choice: How do you specify a background image for an element in CSS?  
 - (A) background-image: url('image.jpg');  
 - (B) background: image('image.jpg');  
 - (C) background-url: 'image.jpg';  
 - (D) bg-image: url('image.jpg');

**Question 3 (ID: 3.7.6):** Multiple Choice: What will be the output of the following code?  
  
javascript  
Copy code  
function testLet() {  
 if (true) {  
 let x = 10;  
 }  
 console.log(x);  
}  
testLet();  
(A) 10  
(B) undefined  
(C) ReferenceError  
(D) null

**Question 4 (ID: 2.1.5):** Multiple Choice: What is the default behavior when multiple styles are applied to an element?  
 - (A) The first style in the HTML file is applied.  
 - (B) All styles are combined and applied.  
 - (C) The most specific style according to CSS specificity rules is applied.  
 - (D) The last style in the CSS file is applied.

**Question 5 (ID: 3.3.2):** Multiple Choice: What is the final value of `fee` in the following code?  
let fee = 30; let age = 12; if (age < 18) { fee -= 5; } if (age < 5) { fee = 0; } console.log(fee);  
- (A) 30  
- (B) 25  
- (C) 0  
- (D) 5

**Question 6 (ID: 3.10.9):** Multiple Choice: How do you check if an object contains a specific key?  
  
- (A) if (object.key !== undefined)  
- (B) if (key in object)  
- (C) if (Object.hasKey(object, key))  
- (D) if (object.includes(key))

**Question 7 (ID: 3.6.1):** Multiple Choice: What is the correct syntax to declare a function in JavaScript?  
  
- (A) function myFunc {}  
- (B) func myFunc() {}  
- (C) function myFunc() {}  
- (D) declare function myFunc() {}

**Question 8 (ID: 1.3.2):** Multiple Choice: What is the purpose of the <p> tag in an HTML document?  
 - (A) To define a line break  
 - (B) To emphasize text  
 - (C) To create a paragraph  
 - (D) To insert an image

**Question 9 (ID: 1.8.5):** True/False: The `<div>` element can contain both block-level and inline elements.

**Question 10 (ID: 2.6.1):** Multiple Choice: What does `position: relative;` do in CSS?  
 - (A) Positions an element relative to its parent element  
 - (B) Positions an element based on the top-left corner of the viewport  
 - (C) Positions an element relative to its normal position in the document flow  
 - (D) Positions an element relative to the first parent with a position other than `static`

**Question 11 (ID: 4.9.3):** Multi-Select: Which of the following are common events in JavaScript? (Select all that apply)  
  
- (A) click  
- (B) keydown  
- (C) submit  
- (D) colorchange

**Question 12 (ID: 3.11.6):** Multiple Choice: What is the result of this code?  
  
let text = "Hello World!";  
let newText = text.replace("World", "JavaScript");  
console.log(newText);  
  
- (A) Hello World!  
- (B) Hello JavaScript!  
- (C) Hello Java!  
- (D) Error

**Question 13 (ID: 2.7.4):** Multi-Select: Which of the following properties are used to control the wrapping of flex items? (Select all that apply)  
 - (A) `flex-wrap`  
 - (B) `flex-basis`  
 - (C) `flex-shrink`  
 - (D) `flex-direction`

**Question 14 (ID: 1.1.5):** True/False: The hostname in a URL must always include "www."

**Question 15 (ID: 4.4.4):** Multiple Choice: What does the `for` attribute in a `<label>` tag do?  
  
- (A) Associates the label with a specific form element using the element's `id`.  
- (B) Makes the label clickable.  
- (C) Specifies the form's action URL.  
- (D) Makes the label submit the form when clicked.

**Question 16 (ID: 4.10.6):** Multiple Choice: What is the effect of the following code?  
  
let myDiv = document.getElementById("mydiv");  
myDiv.style.removeProperty("width");  
  
- (A) The div's width is removed, making it span the entire width of the page.  
- (B) The div is deleted from the DOM.  
- (C) The div's background color changes.  
- (D) The div's height is set to 0.

**Question 17 (ID: 3.8.6):** Multiple Choice: What is the purpose of the forEach() method in JavaScript?  
  
(A) To return a new array with modified values.  
(B) To loop through each element of an array and apply a function to each element.  
(C) To remove elements from an array.  
(D) To concatenate two arrays.

**Question 18 (ID: 2.4.4):** Multiple Choice: How would you set the font weight to bold for a paragraph element?  
 - (A) p { font-style: bold; }  
 - (B) p { font-weight: bold; }  
 - (C) p { text-decoration: bold; }  
 - (D) p { font-family: bold; }

**Question 19 (ID: 3.2.5):** Multiple Choice: Which of the following is the modulus (remainder) operator in JavaScript?  
- (A) `\*\*`  
- (B) `//`  
- (C) `%`  
- (D) `++`

**Question 20 (ID: 4.8.3):** Multi-Select: Which of the following are valid methods for modifying the DOM structure? (Select all that apply)  
  
- (A) `appendChild()`  
- (B) `insertBefore()`  
- (C) `removeChild()`  
- (D) `createTextNode()`

**Question 21 (ID: 3.11.5):** Multiple Choice: What does the `replace()` method do in JavaScript?  
  
- (A) Removes the specified substring.  
- (B) Finds and replaces a substring in a string.  
- (C) Finds and appends a substring to a string.  
- (D) Duplicates a substring within a string.

**Question 22 (ID: 4.9.9):** Multiple Choice: Which phase comes first in the DOM event model?  
  
- (A) Bubbling phase  
- (B) Capturing phase  
- (C) At target phase  
- (D) Callback phase

**Question 23 (ID: 4.6.7):** Multiple Choice: What is the window object in JavaScript?  
  
- (A) It represents the browser's window or frame that displays the document.  
- (B) It represents an HTML element in the DOM.  
- (C) It is a method for creating pop-up windows.  
- (D) It is a method for closing a webpage.

**Question 24 (ID: 2.1.4):** Multi-Select: Which of the following are valid ways to integrate CSS into a webpage? (Select all that apply)  
 - (A) Inline styles  
 - (B) Internal stylesheets  
 - (C) External stylesheets  
 - (D) Importing CSS via JavaScript

**Question 25 (ID: 1.10.4):** Multiple Choice: Which attribute is used to disable an HTML form input field?  
 - (A) disabled  
 - (B) off  
 - (C) inactive  
 - (D) readonly

**Question 26 (ID: 3.7.10):** Multiple Choice: What is the result of trying to log variables y and z outside of their respective functions in this code?  
  
javascript  
Copy code  
var x = 10;  
function scopeTest() {  
 var y = 20;  
 let z = 30;  
 console.log(y);  
 console.log(z);  
}  
scopeTest();  
console.log(x);  
console.log(y);  
console.log(z);  
(A) It logs 10, undefined, and undefined.  
(B) It logs 10, followed by ReferenceError for y and z.  
(C) It logs 10, 20, and 30.  
(D) It throws an error for x, y, and z.

**Question 27 (ID: 3.6.8):** Multiple Choice: Which statement correctly defines an arrow function that calculates the sum of two numbers?  
  
- (A) let sum = (a, b) => { return a + b; }  
- (B) let sum = a, b => return a + b;  
- (C) let sum(a, b) = a + b;  
- (D) arrow sum(a, b) => a + b;

**Question 28 (ID: 1.1.4):** True/False: IPv6 uses 128-bit addresses to allow for a greater number of unique IP addresses compared to IPv4.

**Question 29 (ID: 2.5.2):** Multiple Choice: Which property directly affects the spacing between the content of a box and its border?  
 - (A) margin  
 - (B) border  
 - (C) padding  
 - (D) width

**Question 30 (ID: 4.7.10):** Multiple Choice: Which DOM method is used to remove an attribute from an element?  
  
- (A) `removeChild()`  
- (B) `removeAttribute()`  
- (C) `setAttribute()`  
- (D) `deleteNode()`

**Question 31 (ID: 4.8.2):** Multiple Choice: Which of the following methods is used to add a new child node to the end of a parent node's child list?  
  
- (A) `removeChild()`  
- (B) `insertBefore()`  
- (C) `appendChild()`  
- (D) `cloneNode()`

**Question 32 (ID: 2.5.9):** Multiple Choice: What is the default box-sizing property value in CSS?  
 - (A) border-box  
 - (B) padding-box  
 - (C) content-box  
 - (D) margin-box

**Question 33 (ID: 2.2.2):** Multiple Choice: What does an ID selector begin with in CSS?  
 - (A) A hash (#)  
 - (B) A dot (.)  
 - (C) An at sign (@)  
 - (D) A dollar sign ($)

**Question 34 (ID: 4.3.4):** Multi-Select: Which of the following elements are typically used to create a form? (Select all that apply)  
  
- (A) `<input>`  
- (B) `<form>`  
- (C) `<label>`  
- (D) `<span>`

**Question 35 (ID: 3.9.10):** Multiple Choice: What does the following code output?  
  
javascript  
Copy code  
let game = {  
 firstOpponent: "Serena Williams",  
 firstOpponentScore: 2,  
 secondOpponent: "Garbine Muguruza",  
 secondOpponentScore: 0,  
 get winner() {  
 return this.firstOpponentScore > this.secondOpponentScore ? this.firstOpponent : this.secondOpponent;  
 }  
};  
console.log(game.winner);  
(A) Serena Williams  
(B) Garbine Muguruza  
(C) undefined  
(D) Error

**Question 36 (ID: 1.1.2):** Multiple Choice: What is the maximum number in any single part of an IPv4 address?  
 - (A) 100  
 - (B) 255  
 - (C) 500  
 - (D) 1024

**Question 37 (ID: 3.2.4):** Multiple Choice: What does the following compound assignment operation do?  
x += 2;  
- (A) Adds 2 to x and stores the result in x  
- (B) Subtracts 2 from x and stores the result in x  
- (C) Multiplies x by 2 and stores the result in x  
- (D) Divides x by 2 and stores the result in x

**Question 38 (ID: 2.6.10):** Multi-Select: Which of the following are common use cases for `position: absolute;`? (Select all that apply)  
 - (A) Creating tooltips or dropdown menus  
 - (B) Centering elements within a container  
 - (C) Creating elements that remain in place when the page is scrolled  
 - (D) Layering elements on top of each other with z-index

**Question 39 (ID: 3.3.10):** Multiple Choice: What is the final value of `numItems` in the following code?  
let bonus = 15;   
let numItems = 44;   
if (bonus < 12) {   
 numItems += 3;   
} else {   
 numItems += 6;   
} numItems++;  
  
- (A) 44  
- (B) 50  
- (C) 51  
- (D) 53

**Question 40 (ID: 4.10.1):** Multiple Choice: Which JavaScript method is used to get the value of an element's CSS property?  
  
- (A) `getPropertyValue()`  
- (B) `setProperty()`  
- (C) `removeProperty()`  
- (D) `querySelector()`

**Question 41 (ID: 2.5.6):** Multiple Choice: Which property is used to control the transparency level of a border?  
 - (A) border-opacity  
 - (B) border-color  
 - (C) opacity  
 - (D) border-style

**Question 42 (ID: 3.9.1):** Multiple Choice: What does the following code output to the console?  
  
```javascript  
let book = {  
 title: "Outliers",  
 published: 2011,  
 keywords: ["success", "high-achievers"]  
};  
console.log(book.title);  
console.log(book.keywords[0]);  
  
(A) Outliers, success  
(B) Outliers, high-achievers  
(C) undefined, success  
(D) undefined, undefined

**Question 43 (ID: 4.2.5):** Multiple Choice: What does the `replace()` method do when using regular expressions in JavaScript?  
  
- (A) Finds a string and deletes it.  
- (B) Replaces one or more matches of a pattern with a specified replacement.  
- (C) Tests if a string matches a pattern.  
- (D) Returns an array of matched substrings.

**Question 44 (ID: 2.4.9):** Multiple Choice: What unit is best used for defining font sizes that scale with device settings?  
 - (A) pixels (px)  
 - (B) points (pt)  
 - (C) viewport width (vw)  
 - (D) root em (rem)

**Question 45 (ID: 3.4.4):** Multiple Choice: What does the ternary operator allow you to do in JavaScript?  
- (A) Declare multiple variables in one statement  
- (B) Write an if-else condition in a single line  
- (C) Loop through arrays more efficiently  
- (D) Create functions without naming them

**Question 46 (ID: 2.7.1):** Multiple Choice: What CSS property turns an element into a flex container?  
 - (A) `display: block;`  
 - (B) `display: inline-block;`  
 - (C) `display: flex;`  
 - (D) `display: grid;`

**Question 47 (ID: 4.1.6):** Multiple Choice: Which of the following methods gets the full year from a `Date` object?  
  
- (A) `getYear()`  
- (B) `getFullYear()`  
- (C) `getDate()`  
- (D) `getMonth()`

**Question 48 (ID: 4.5.8):** Multiple Choice: What does the `border-radius` property do when applied to form elements?  
  
- (A) It removes the borders from the element.  
- (B) It makes the element's corners rounded.  
- (C) It increases the size of the borders.  
- (D) It changes the color of the borders.

**Question 49 (ID: 4.8.1):** Multiple Choice: What does the `parentNode` property do in the DOM?  
  
- (A) It returns the parent node of the current node.  
- (B) It adds a new parent node to the current node.  
- (C) It removes the parent node of the current node.  
- (D) It replaces the parent node of the current node.

**Question 50 (ID: 3.10.6):** Multiple Choice: What is the result of this code?  
  
let stateCapitals = {  
 AR: "Little Rock",  
 CO: "Denver"  
};  
delete stateCapitals["CO"];  
console.log("CO" in stateCapitals);  
  
- (A) true  
- (B) false  
- (C) undefined  
- (D) An error is thrown

# Answers

**Answer to Question 1:** (D) Both (A) and (B)

**Answer to Question 2:** (A) background-image: url('image.jpg');

**Answer to Question 3:** (C) ReferenceError

**Answer to Question 4:** (C) The most specific style according to CSS specificity rules is applied.

**Answer to Question 5:** (B) 25

**Answer to Question 6:** (B) if (key in object)

**Answer to Question 7:** (C) function myFunc() {}

**Answer to Question 8:** (C) To create a paragraph

**Answer to Question 9:** True

**Answer to Question 10:** (C) Positions an element relative to its normal position in the document flow

**Answer to Question 11:** (A) click, (B) keydown, (C) submit

**Answer to Question 12:** (B) Hello JavaScript!

**Answer to Question 13:** (A) `flex-wrap`, (D) `flex-direction`

**Answer to Question 14:** False

**Answer to Question 15:** (A) Associates the label with a specific form element using the element's `id`.

**Answer to Question 16:** (A) The div's width is removed, making it span the entire width of the page.

**Answer to Question 17:** (B) To loop through each element of an array and apply a function to each element.

**Answer to Question 18:** (B) p { font-weight: bold; }

**Answer to Question 19:** (C) `%`

**Answer to Question 20:** (A) `appendChild()`, (B) `insertBefore()`, (C) `removeChild()`

**Answer to Question 21:** (B) Finds and replaces a substring in a string.

**Answer to Question 22:** (B) Capturing phase

**Answer to Question 23:** (A) It represents the browser's window or frame that displays the document.

**Answer to Question 24:** (A) Inline styles, (B) Internal stylesheets, (C) External stylesheets

**Answer to Question 25:** (A) disabled

**Answer to Question 26:** (B) It logs `10`, followed by ReferenceError for `y` and `z`.

**Answer to Question 27:** (A) let sum = (a, b) => { return a + b; }

**Answer to Question 28:** True

**Answer to Question 29:** (C) padding

**Answer to Question 30:** (B) `removeAttribute()`

**Answer to Question 31:** (C) `appendChild()`

**Answer to Question 32:** (C) content-box

**Answer to Question 33:** (A) A hash (#)

**Answer to Question 34:** (A) `<input>`, (B) `<form>`, (C) `<label>`

**Answer to Question 35:** (A) Serena Williams

**Answer to Question 36:** (B) 255

**Answer to Question 37:** (A) Adds 2 to x and stores the result in x

**Answer to Question 38:** (A) Creating tooltips or dropdown menus, (B) Centering elements within a container, (D) Layering elements on top of each other with z-index

**Answer to Question 39:** (C) 51

**Answer to Question 40:** (A) `getPropertyValue()`

**Answer to Question 41:** (B) border-color

**Answer to Question 42:** (A) Outliers, success

**Answer to Question 43:** (B) Replaces one or more matches of a pattern with a specified replacement.

**Answer to Question 44:** (D) root em (rem)

**Answer to Question 45:** (B) Write an if-else condition in a single line

**Answer to Question 46:** (C) `display: flex;`

**Answer to Question 47:** (B) `getFullYear()`

**Answer to Question 48:** (B) It makes the element's corners rounded.

**Answer to Question 49:** (A) It returns the parent node of the current node.

**Answer to Question 50:** (B) false