# Randomly Selected Questions - Set 1

**Question 1 (ID: 1.4.7):** True/False: HTML comments can be used to hide scripts from browsers that do not support JavaScript.

**Question 2 (ID: 1.7.9):** Multiple Choice: How do you create a hyperlink that points to a specific section of the same webpage?  
 - (A) Use the `id` attribute in the `<a>` tag  
 - (B) Use the `name` attribute in the `<a>` tag  
 - (C) Use a hash (`#`) followed by the section's identifier in the `href` attribute  
 - (D) Use the `link` element

**Question 3 (ID: 2.5.1):** Multiple Choice: What does the CSS 'box model' refer to?  
 - (A) A method for designing 3D animations  
 - (B) A concept that encompasses padding, border, and margin of HTML elements  
 - (C) The outline used for interactive elements on a webpage  
 - (D) A debugging tool in modern browsers

**Question 4 (ID: 2.1.1):** Multiple Choice: What is the primary function of CSS?  
 - (A) To structure web page content  
 - (B) To create interactive user interfaces  
 - (C) To define the visual presentation of web pages  
 - (D) To manage the server response to web requests

**Question 5 (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 6 (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 7 (ID: 1.1.9):** True/False: Every device connected to the Internet must have a unique IP address in the IPv4 or IPv6 standard.

**Question 8 (ID: 4.5.2):** Multiple Choice: What CSS property is used to control the spacing between labels and form inputs?  
  
- (A) padding  
- (B) margin  
- (C) border  
- (D) line-height

**Question 9 (ID: 2.3.10):** Multiple Choice: What is the CSS `background-clip` property used for?  
 - (A) To define the painting area of the background  
 - (B) To clip the background to fit the content area only  
 - (C) To add animation effects to the background  
 - (D) To prevent the background from scrolling with the content

**Question 10 (ID: 1.6.5):** Multiple Choice: Which attribute would you use to change the bullet style in an unordered list using CSS?  
 - (A) list-style-type  
 - (B) list-bullet-style  
 - (C) bullet-style  
 - (D) type-style

**Question 11 (ID: 1.1.7):** True/False: The subnet mask of an IPv4 address determines which part of the address represents the network and which part represents the host.

**Question 12 (ID: 4.4.1):** Multiple Choice: What does the `checked` attribute do in a checkbox input?  
  
- (A) It specifies the value of the checkbox.  
- (B) It sets the checkbox to be selected by default.  
- (C) It prevents the checkbox from being unselected.  
- (D) It submits the checkbox value as "on" to the server.

**Question 13 (ID: 1.3.10):** Multiple Choice: How should line breaks be managed in HTML for content such as addresses or poetry?  
 - (A) Using <p> tags at the end of each line  
 - (B) Using CSS to manage spacing  
 - (C) Using <br> tags at the end of each line  
 - (D) Using <div> tags for each new line

**Question 14 (ID: 1.9.7):** True/False: You can use the `<th>` element within `<tbody>` to emphasize certain rows.

**Question 15 (ID: 2.1.9):** Multi-Select: What are the effects of using the '!important' declaration in a CSS rule? (Select all that apply)  
 - (A) It increases the priority of the CSS rule.  
 - (B) It makes the CSS file larger.  
 - (C) It overrides other declarations even if they have higher specificity.  
 - (D) It can make debugging and maintenance of CSS more difficult.

**Question 16 (ID: 3.5.3):** Multi-Select: Which of the following loops always execute at least once? (Select all that apply)  
  
- (A) `while` loop  
- (B) `for` loop  
- (C) `do-while` loop  
- (D) Infinite loop

**Question 17 (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 18 (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

**Question 19 (ID: 2.3.1):** Multiple Choice: What is the purpose of the CSS `color` property?  
 - (A) To set the background color of an element  
 - (B) To define the text color of an element  
 - (C) To specify the border color of an element  
 - (D) To change the color of links within an element

**Question 20 (ID: 1.9.6):** Multiple Choice: Which tag is used to group the body content in an HTML table?  
 - (A) `<thead>`  
 - (B) `<tfoot>`  
 - (C) `<tbody>`  
 - (D) `<tgroup>`

**Question 21 (ID: 2.3.3):** Multi-Select: Which properties can use the `rgba()` function for defining colors? (Select all that apply)  
 - (A) color  
 - (B) background-color  
 - (C) border-color  
 - (D) outline-color

**Question 22 (ID: 4.3.6):** Multiple Choice: What is the output of the following code?  
  
<form action="https://example.com/apply" method="POST">  
 <input type="text" name="first" value="Rick">  
 <input type="text" name="last" value="Deckard">  
 <input type="submit">  
</form>  
  
- (A) The form data is sent to the server with "first=Rick&last=Deckard" in the request body.  
- (B) The form data is sent to the server with "first=Rick&last=Deckard" in the URL.  
- (C) The form data is saved to local storage.  
- (D) The form data is appended to the document body.

**Question 23 (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 24 (ID: 2.5.5):** Multiple Choice: What is the effect of setting the 'margin' property to 'auto'?  
 - (A) It removes the margin.  
 - (B) It maximizes the margin based on the available space.  
 - (C) It centers the element within its containing element if width is specified.  
 - (D) It minimizes the margin to zero pixels.

**Question 25 (ID: 4.8.4):** Multiple Choice: What does the `nextElementSibling` property return?  
  
- (A) The next sibling node, regardless of type  
- (B) The next element node that shares the same parent  
- (C) The last child node in the current parent  
- (D) The first child node of the parent

**Question 26 (ID: 4.6.6):** Multiple Choice: Which of the following methods adds an event listener to an HTML element?  
  
- (A) addEventListener()  
- (B) attachListener()  
- (C) setEvent()  
- (D) createListener()

**Question 27 (ID: 3.1.8):** Multiple Choice: What is the result of the following JavaScript code?  
let x; console.log(typeof x);  
  
- (A) number  
- (B) string  
- (C) undefined  
- (D) null

**Question 28 (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 29 (ID: 4.6.5):** Multiple Choice: What will be the output of this JavaScript code?  
  
<div id="myDiv">Hello</div>  
<script>  
document.getElementById("myDiv").innerHTML = "Goodbye";  
</script>  
  
- (A) "Hello" will be replaced with "Goodbye"  
- (B) "Hello" will remain unchanged  
- (C) The div will be removed from the DOM  
- (D) The code will cause an error

**Question 30 (ID: 3.11.8):** Multiple Choice: What will the following code output?  
  
let phrase = "Spaces here";  
console.log(phrase.length);  
  
- (A) 10  
- (B) 11  
- (C) 12  
- (D) undefined

**Question 31 (ID: 4.4.8):** Multi-Select: Which of the following input types allow the user to select multiple options in a form? (Select all that apply)  
  
- (A) `checkbox`  
- (B) `radio`  
- (C) `select` with the `multiple` attribute  
- (D) `textarea`

**Question 32 (ID: 4.10.9):** Multiple Choice: What happens when `getPropertyValue("width")` is called on an element?  
  
- (A) It returns the current value of the element's width property.  
- (B) It sets the element's width to 100px.  
- (C) It removes the width property from the element.  
- (D) It adds a new width property to the element.

**Question 33 (ID: 2.7.10):** Multi-Select: Which of the following are valid values for the `flex-direction` property? (Select all that apply)  
 - (A) `row`  
 - (B) `row-reverse`  
 - (C) `column`  
 - (D) `column-reverse`

**Question 34 (ID: 1.2.5):** Multiple Choice: How is document type declaration (<DOCTYPE>) incorrectly described?  
 - (A) It defines the HTML version being used.  
 - (B) It is necessary for ensuring modern standards compliance.  
 - (C) It activates the browser's quirks mode when omitted.  
 - (D) It is an HTML element that contains metadata.

**Question 35 (ID: 1.6.2):** Multiple Choice: Which HTML element is used to create an unordered list?  
 - (A) <ol>  
 - (B) <ul>  
 - (C) <li>  
 - (D) <list>

**Question 36 (ID: 1.2.7):** Multiple Choice: Which statement is true about the <footer> element?  
 - (A) It should only appear once at the bottom of the document.  
 - (B) It can be used multiple times within sections or articles.  
 - (C) It is deprecated in HTML5.  
 - (D) It is reserved for bottom page copyrights only.

**Question 37 (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 38 (ID: 3.10.1):** Multiple Choice: What does the following code output?  
  
let stateCapitals = {  
 AR: "Little Rock",  
 CO: "Denver",  
 NM: "Santa Fe"  
};  
console.log(stateCapitals["CO"]);  
  
- (A) Little Rock  
- (B) Denver  
- (C) Santa Fe  
- (D) undefined

**Question 39 (ID: 3.2.1):** Multiple Choice: Which arithmetic operator in JavaScript is used for exponentiation?  
 - (A) `^`  
 - (B) `\*\*`  
 - (C) `exp()`  
 - (D) `++`

**Question 40 (ID: 4.3.3):** Multiple Choice: What happens when a form with the `GET` method is submitted?  
  
- (A) The form data is added to the URL as query parameters.  
- (B) The form data is hidden and sent in the request body.  
- (C) The form data is saved in local storage.  
- (D) The form submission is cancelled if the data is invalid.

**Question 41 (ID: 1.4.3):** True/False: Comments in HTML can be nested inside other comments.

**Question 42 (ID: 3.9.9):** Multiple Choice: What is an accessor property in JavaScript?  
  
(A) A property that has both getter and setter functions  
(B) A property that is accessible only inside the object  
(C) A property that is inherited from another object  
(D) A property that is read-only

**Question 43 (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 44 (ID: 2.1.6):** Multiple Choice: Which CSS property controls the text size?  
 - (A) text-size  
 - (B) font-style  
 - (C) font-weight  
 - (D) font-size

**Question 45 (ID: 2.7.5):** Multiple Choice: What does `justify-content: space-between;` do in a flex container?  
 - (A) Aligns all items to the center  
 - (B) Adds equal spacing between all flex items, with no space at the edges  
 - (C) Adds equal spacing between all items and the container edges  
 - (D) Aligns all items to the start of the container

**Question 46 (ID: 3.2.6):** Multiple Choice: What is the result of the following expression?  
2 \*\* 3  
- (A) 6  
- (B) 8  
- (C) 9  
- (D) 12

**Question 47 (ID: 3.3.1):** Multiple Choice: Which of the following best describes the purpose of an if statement in JavaScript?  
 - (A) It repeats a block of code as long as a condition is true  
 - (B) It executes a block of code if a specified condition is true  
 - (C) It randomly chooses whether to execute a block of code  
 - (D) It declares a variable with a default value

**Question 48 (ID: 2.4.2):** Multiple Choice: Which unit is relative to the parent element’s font size?  
 - (A) px  
 - (B) em  
 - (C) cm  
 - (D) pt

**Question 49 (ID: 3.3.8):** Multiple Choice: What does the `else-if` structure provide that a basic `if-else` structure does not?  
- (A) It allows for more than two possible conditions to be evaluated  
- (B) It speeds up the execution of code  
- (C) It allows for a fallback condition when `else` is not enough  
- (D) It enables loops within conditionals

**Question 50 (ID: 4.2.1):** Multiple Choice: What does the `test()` method do in JavaScript regular expressions?  
  
- (A) It searches for a match in a string and returns the matched substring.  
- (B) It tests if a string matches a pattern and returns true or false.  
- (C) It replaces a substring that matches a pattern.  
- (D) It splits a string into an array of substrings.

# Answers

**Answer to Question 1:** True

**Answer to Question 2:** (C) Use a hash (`#`) followed by the section's identifier in the `href` attribute

**Answer to Question 3:** (B) A concept that encompasses padding, border, and margin of HTML elements

**Answer to Question 4:** (C) To define the visual presentation of web pages

**Answer to Question 5:** (B) It makes the element's corners rounded.

**Answer to Question 6:** (B) Write an if-else condition in a single line

**Answer to Question 7:** True

**Answer to Question 8:** (B) margin

**Answer to Question 9:** (A) To define the painting area of the background

**Answer to Question 10:** (A) list-style-type

**Answer to Question 11:** True

**Answer to Question 12:** (B) It sets the checkbox to be selected by default.

**Answer to Question 13:** (C) Using <br> tags at the end of each line

**Answer to Question 14:** True

**Answer to Question 15:** (A) It increases the priority of the CSS rule, (C) It overrides other declarations even if they have higher specificity, (D) It can make debugging and maintenance of CSS more difficult.

**Answer to Question 16:** (C) `do-while` loop, (D) Infinite loop

**Answer to Question 17:** (B) Capturing phase

**Answer to Question 18:** (B) false

**Answer to Question 19:** (B) To define the text color of an element

**Answer to Question 20:** (C) `<tbody>`

**Answer to Question 21:** (A) color, (B) background-color, (C) border-color, (D) outline-color

**Answer to Question 22:** (A) The form data is sent to the server with "first=Rick&last=Deckard" in the request body.

**Answer to Question 23:** (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 24:** (C) It centers the element within its containing element if width is specified.

**Answer to Question 25:** (B) The next element node that shares the same parent.

**Answer to Question 26:** (A) addEventListener()

**Answer to Question 27:** (C) undefined

**Answer to Question 28:** (A) disabled

**Answer to Question 29:** (A) "Hello" will be replaced with "Goodbye"

**Answer to Question 30:** (B) 11

**Answer to Question 31:** (A) `checkbox`, (C) `select` with the `multiple` attribute

**Answer to Question 32:** (A) It returns the current value of the element's width property.

**Answer to Question 33:** (A) `row`, (B) `row-reverse`, (C) `column`, (D) `column-reverse`

**Answer to Question 34:** (D) It is an HTML element that contains metadata.

**Answer to Question 35:** (B) <ul>

**Answer to Question 36:** (B) It can be used multiple times within sections or articles.

**Answer to Question 37:** (B) p { font-weight: bold; }

**Answer to Question 38:** (B) Denver

**Answer to Question 39:** (B) `\*\*`

**Answer to Question 40:** (A) The form data is added to the URL as query parameters.

**Answer to Question 41:** False

**Answer to Question 42:** (A) A property that has both getter and setter functions

**Answer to Question 43:** (D) Both (A) and (B)

**Answer to Question 44:** (D) font-size

**Answer to Question 45:** (B) Adds equal spacing between all flex items, with no space at the edges

**Answer to Question 46:** (B) 8

**Answer to Question 47:** (B) It executes a block of code if a specified condition is true

**Answer to Question 48:** (B) em

**Answer to Question 49:** (A) It allows for more than two possible conditions to be evaluated

**Answer to Question 50:** (B) It tests if a string matches a pattern and returns true or false.