# Randomly Selected Questions - Set 1

**Question 1 (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 2 (ID: 1.4.3):** True/False: Comments in HTML can be nested inside other comments.

**Question 3 (ID: 4.9.10):** Multiple Choice: What does the `stopPropagation()` method do in an event handler?  
  
- (A) It prevents further propagation of the current event in the capturing or bubbling phase.  
- (B) It stops the current event from completing.  
- (C) It cancels the event and removes all listeners.  
- (D) It triggers the event multiple times.

**Question 4 (ID: 3.6.3):** Multi-Select: Which of the following are valid ways to call a function in JavaScript? (Select all that apply)  
  
- (A) myFunc()  
- (B) call myFunc()  
- (C) myFunc(3, 4)  
- (D) myFunc;

**Question 5 (ID: 2.6.4):** Multiple Choice: What is the key difference between `position: fixed;` and `position: absolute;`?  
 - (A) Fixed elements scroll with the page, while absolute elements remain in place.  
 - (B) Fixed elements are positioned relative to the viewport, while absolute elements are positioned relative to their nearest positioned ancestor.  
 - (C) Fixed elements are always at the top of the page, while absolute elements move with the page.  
 - (D) Fixed elements cannot have z-index, while absolute elements can.

**Question 6 (ID: 4.1.8):** Multiple Choice: What happens if you pass only the year to the `Date` constructor?  
  
- (A) It creates a date on January 1st of that year.  
- (B) It creates a date on December 31st of that year.  
- (C) It throws an error.  
- (D) It defaults to the current date.

**Question 7 (ID: 3.7.3):** Multi-Select: Which of the following statements about `let` and `var` are true? (Select all that apply)  
  
- (A) Variables declared with `let` are not hoisted.  
- (B) Variables declared with `var` are hoisted.  
- (C) Variables declared with `let` have block scope.  
- (D) Variables declared with `var` have function scope.

**Question 8 (ID: 4.5.1):** Multiple Choice: What must be set to make the `label` element's width adjustable?  
  
- (A) display: inline  
- (B) display: block  
- (C) display: inline-block  
- (D) width: auto

**Question 9 (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 10 (ID: 4.2.2):** Multiple Choice: What is the output of the following code?  
  
let re = /ab/;  
let words = ["ban", "babble", "make", "flab"];  
words.forEach(function(word) {  
 if (re.test(word)) {  
 console.log(word + " matches!");  
 }  
});  
  
- (A) ban matches!, babble matches!  
- (B) babble matches!, flab matches!  
- (C) make matches!  
- (D) No output

**Question 11 (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 12 (ID: 4.11.4):** Multiple Choice: What is the purpose of the `required` attribute in HTML form input elements?  
  
- (A) To ensure that the field has a value before the form can be submitted.  
- (B) To prevent the user from modifying the input field.  
- (C) To provide a default value for the input field.  
- (D) To limit the length of the input field.

**Question 13 (ID: 3.11.10):** Multiple Choice: What is the benefit of using template literals in JavaScript?  
  
- (A) They allow embedding expressions into strings.  
- (B) They prevent the use of variables in strings.  
- (C) They convert strings to numbers automatically.  
- (D) They remove special characters from strings.

**Question 14 (ID: 1.7.6):** True/False: An `<a>` element can only contain text and cannot include images.

**Question 15 (ID: 1.1.6):** Multiple Choice: What protocol is used by a browser to retrieve the IP address of a domain name?  
 - (A) HTTPS  
 - (B) SMTP  
 - (C) DNS  
 - (D) TCP

**Question 16 (ID: 1.8.8):** Multiple Choice: Which element is most suitable for marking up a sidebar with secondary content like links or advertisements?  
 - (A) `<main>`  
 - (B) `<footer>`  
 - (C) `<aside>`  
 - (D) `<nav>`

**Question 17 (ID: 3.10.7):** Multi-Select: Which of the following statements are true about for-in loops in JavaScript? (Select all that apply)  
  
- (A) They loop over all enumerable properties of an object.  
- (B) They loop over both the keys and values of an object.  
- (C) They can be used to iterate over arrays.  
- (D) They loop through an object’s keys in insertion order.

**Question 18 (ID: 1.5.9):** Multiple Choice: How does the browser handle an <img> tag with conflicting width and height attributes that distort the image's natural aspect ratio?  
 - (A) The image is displayed with the specified dimensions, possibly distorted.  
 - (B) The browser adjusts the dimensions to maintain the aspect ratio.  
 - (C) The image fails to load.  
 - (D) The browser ignores the height attribute.

**Question 19 (ID: 1.8.1):** True/False: Containers in HTML are always block-level elements.

**Question 20 (ID: 3.4.2):** Multiple Choice: What is the output of the following code?  
let x = 10; console.log(x ? "Truthy" : "Falsy");  
- (A) "Truthy"  
- (B) "Falsy"  
- (C) undefined  
- (D) NaN

**Question 21 (ID: 3.11.7):** Multiple Choice: Which of the following methods converts a string to lowercase?  
  
- (A) `toUpperCase()`  
- (B) `toLowerCase()`  
- (C) `split()`  
- (D) `concat()`

**Question 22 (ID: 1.2.8):** Multiple Choice: What does the 'charset' attribute in a <meta> tag specify?  
 - (A) The character encoding for the HTML document  
 - (B) The set of characters allowed in the document's comments  
 - (C) The website's character count limits  
 - (D) The character encoding for URLs within the document

**Question 23 (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 24 (ID: 3.9.6):** Multiple Choice: What is the output of this code?  
  
javascript  
Copy code  
let book = {  
 title: "Quiet",  
 author: {  
 firstName: "Susan",  
 lastName: "Cain"  
 },  
 getAuthorName: function() {  
 return this.author.firstName + " " + this.author.lastName;  
 }  
};  
console.log(book.getAuthorName());  
(A) Susan Cain  
(B) Quiet  
(C) undefined  
(D) Error

**Question 25 (ID: 4.7.7):** Multi-Select: Which of the following methods are used to search for nodes in the DOM? (Select all that apply)  
  
- (A) `document.getElementById()`  
- (B) `document.querySelector()`  
- (C) `document.createTextNode()`  
- (D) `document.getElementsByTagName()`

**Question 26 (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 27 (ID: 4.11.8):** Multiple Choice: What happens when isNaN() is used in form validation?  
  
(A) It checks if the value entered is not a number.  
(B) It checks if the value entered is a string.  
(C) It replaces the current value with a number.  
(D) It submits the form only if the value is a number.

**Question 28 (ID: 1.4.10):** Multiple Choice: Which statement about HTML comments is true?  
 - (A) Comments can be placed anywhere in the HTML, including within tags.  
 - (B) Comments reduce the overall performance of the webpage.  
 - (C) Comments can execute HTML code when the page loads.  
 - (D) Comments are often used to include executable code on the page.

**Question 29 (ID: 2.4.3):** Multi-Select: Which properties are set by the shorthand `font` property? (Select all that apply)  
 - (A) font-family  
 - (B) font-size  
 - (C) font-weight  
 - (D) line-height

**Question 30 (ID: 3.5.7):** Multi-Select: Which of the following are valid uses of the `for` loop in JavaScript? (Select all that apply)  
  
- (A) `for (let i = 0; i < 10; i++) { console.log(i); }`  
- (B) `for (let x = 10; x > 0; x--) { console.log(x); }`  
- (C) `for (let i = 1; i <= 5; i++) { if (i === 3) break; }`  
- (D) `for (let i = 0; i++) { console.log(i); }`

**Question 31 (ID: 4.4.9):** Multiple Choice: What does the `value` attribute in a checkbox represent?  
  
- (A) The text shown next to the checkbox.  
- (B) The value sent to the server if the checkbox is selected.  
- (C) The default state of the checkbox.  
- (D) The color of the checkbox.

**Question 32 (ID: 4.9.4):** Multiple Choice: What does the `addEventListener()` method do?  
  
- (A) It triggers an event immediately after a function call.  
- (B) It registers an event handler to respond to a specific event.  
- (C) It removes an event from the DOM.  
- (D) It adds an event to the CSS styling.

**Question 33 (ID: 4.1.5):** Multiple Choice: What is the output of the following code?  
  
let georgeBirthday = new Date(1732, 1, 22);  
console.log(georgeBirthday);  
  
- (A) Jan 22, 1732  
- (B) Feb 22, 1732  
- (C) Mar 22, 1732  
- (D) Undefined

**Question 34 (ID: 1.3.4):** Multiple Choice: How do browsers typically display paragraphs?  
 - (A) With no spacing between paragraphs  
 - (B) With extra spacing above and below paragraphs  
 - (C) By indenting the first line of each paragraph  
 - (D) By making the text bold

**Question 35 (ID: 2.1.7):** Multiple Choice: What does the 'style' attribute represent in an HTML tag?  
 - (A) A way to add a unique identifier to an element  
 - (B) A method to apply CSS rules directly to the element  
 - (C) A link to an external stylesheet  
 - (D) An indication of the element's importance in the document

**Question 36 (ID: 4.11.6):** Multiple Choice: What is the output of the following validation code?  
  
```html  
<input type="text" id="zipCode" pattern="\d{5}" required>  
(A) It checks that the input is a 5-digit number and is required.  
(B) It checks that the input is exactly 5 letters.  
(C) It checks that the input can be a number or letters.  
(D) It does not perform any validation.

**Question 37 (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 38 (ID: 4.3.2):** Multiple Choice: What is the default method used if the `method` attribute is not specified in a form?  
  
- (A) POST  
- (B) GET  
- (C) PUT  
- (D) DELETE

**Question 39 (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 40 (ID: 4.4.3):** Multi-Select: Which of the following are valid attributes for a checkbox input in HTML? (Select all that apply)  
  
- (A) `checked`  
- (B) `value`  
- (C) `name`  
- (D) `method`

**Question 41 (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 42 (ID: 4.5.4):** Multi-Select: Which of the following attributes can be used to style form inputs for better usability? (Select all that apply)  
  
- (A) padding  
- (B) border-radius  
- (C) color  
- (D) box-shadow

**Question 43 (ID: 4.11.10):** Multiple Choice: How does the maxlength attribute help with form validation?  
  
(A) It limits the number of characters a user can enter into a field.  
(B) It prevents users from submitting the form.  
(C) It automatically corrects the length of input.  
(D) It replaces the entered text with a default value.)

**Question 44 (ID: 2.4.1):** Multiple Choice: What does the `font-family` property specify in CSS?  
 - (A) The line height of text  
 - (B) The decoration of the text  
 - (C) The font type used for text rendering  
 - (D) The color of the text

**Question 45 (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 46 (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 47 (ID: 1.5.6):** True/False: The <img> tag can be used to embed a video file into a webpage.

**Question 48 (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 49 (ID: 4.3.10):** Multiple Choice: What does the `placeholder` attribute do in an `<input>` element?  
  
- (A) It provides a hint to the user as to what value should be entered.  
- (B) It pre-populates the input field with a default value.  
- (C) It hides the input field until the form is submitted.  
- (D) It validates the input data before submission.

**Question 50 (ID: 4.1.3):** Multiple Choice: What is the result of the following code?  
  
let oneSecPastEpoch = new Date(1000);  
console.log(oneSecPastEpoch);  
  
- (A) Jan 1, 1970, 00:00:01 UTC  
- (B) Dec 31, 1969, 18:00:01 UTC  
- (C) Jan 1, 1970, 00:00:01 GMT-0500  
- (D) Undefined

# Answers

**Answer to Question 1:** (B) To define the text color of an element

**Answer to Question 2:** False

**Answer to Question 3:** (A) It prevents further propagation of the current event in the capturing or bubbling phase.

**Answer to Question 4:** (A) myFunc(), (C) myFunc(3, 4)

**Answer to Question 5:** (B) Fixed elements are positioned relative to the viewport, while absolute elements are positioned relative to their nearest positioned ancestor.

**Answer to Question 6:** (A) It creates a date on January 1st of that year.

**Answer to Question 7:** (B) Variables declared with `var` are hoisted., (C) Variables declared with `let` have block scope., (D) Variables declared with `var` have function scope.

**Answer to Question 8:** (C) display: inline-block

**Answer to Question 9:** (C) To define the visual presentation of web pages

**Answer to Question 10:** (B) babble matches!, flab matches!

**Answer to Question 11:** (B) p { font-weight: bold; }

**Answer to Question 12:** (A) To ensure that the field has a value before the form can be submitted.

**Answer to Question 13:** (A) They allow embedding expressions into strings.

**Answer to Question 14:** False

**Answer to Question 15:** (C) DNS

**Answer to Question 16:** (C) `<aside>`

**Answer to Question 17:** (A) They loop over all enumerable properties of an object., (C) They can be used to iterate over arrays.

**Answer to Question 18:** (A) The image is displayed with the specified dimensions, possibly distorted.

**Answer to Question 19:** False

**Answer to Question 20:** (A) "Truthy"

**Answer to Question 21:** (B) `toLowerCase()`

**Answer to Question 22:** (A) The character encoding for the HTML document

**Answer to Question 23:** (B) Adds equal spacing between all flex items, with no space at the edges

**Answer to Question 24:** (A) Susan Cain

**Answer to Question 25:** (A) `document.getElementById()`, (B) `document.querySelector()`, (D) `document.getElementsByTagName()`

**Answer to Question 26:** (A) Inline styles, (B) Internal stylesheets, (C) External stylesheets

**Answer to Question 27:** (A) It checks if the value entered is not a number.

**Answer to Question 28:** (A) Comments can be placed anywhere in the HTML, including within tags.

**Answer to Question 29:** (A) font-family, (B) font-size, (C) font-weight

**Answer to Question 30:** (A) `for (let i = 0; i < 10; i++) { console.log(i); }`, (B) `for (let x = 10; x > 0; x--) { console.log(x); }`, (C) `for (let i = 1; i <= 5; i++) { if (i === 3) break; }`

**Answer to Question 31:** (B) The value sent to the server if the checkbox is selected.

**Answer to Question 32:** (B) It registers an event handler to respond to a specific event.

**Answer to Question 33:** (B) Feb 22, 1732

**Answer to Question 34:** (B) With extra spacing above and below paragraphs

**Answer to Question 35:** (B) A method to apply CSS rules directly to the element

**Answer to Question 36:** (A) It checks that the input is a 5-digit number and is required.

**Answer to Question 37:** (A) Outliers, success

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

**Answer to Question 39:** (B) margin

**Answer to Question 40:** (A) `checked`, (B) `value`, (C) `name`

**Answer to Question 41:** (B) A concept that encompasses padding, border, and margin of HTML elements

**Answer to Question 42:** (A) padding, (B) border-radius, (C) color, (D) box-shadow

**Answer to Question 43:** (A) It limits the number of characters a user can enter into a field.

**Answer to Question 44:** (C) The font type used for text rendering

**Answer to Question 45:** True

**Answer to Question 46:** (A) The form data is sent to the server with "first=Rick&last=Deckard" in the request body.

**Answer to Question 47:** False

**Answer to Question 48:** (C) 51

**Answer to Question 49:** (A) It provides a hint to the user as to what value should be entered.

**Answer to Question 50:** (B) Dec 31, 1969, 18:00:01 UTC