# Randomly Selected Questions - Set 5

**Question 1 (ID: 4.11.5):** Multiple Answers: Which attributes can be used in HTML for automatic form validation without JavaScript? Select all that apply.  
- (A) required  
- (B) pattern  
- (C) maxlength  
- (D) novalidate

**Question 2 (ID: 4.11.1):** Multiple Choice: What is the role of data validation in web applications?  
- (A) To store data securely in databases  
- (B) To check input for correctness and ensure data integrity  
- (C) To enhance the visual design of web forms  
- (D) To automate form submissions

**Question 3 (ID: 3.1.5):** Multiple Choice: Which of the following is a good JavaScript naming convention?   
- (A) totalPoints   
- (B) total\_points   
- (C) TotalPoints   
- (D) TOTALPOINTS

**Question 4 (ID: 3.8.7):** Fill in the Blank: The `sort()` method by default sorts elements as strings using their \_\_\_\_\_\_\_\_\_\_\_\_ values.

**Question 5 (ID: 3.9.6):** Multiple Choice: In the provided method definition:  
```javascript  
getAuthorName() {  
 return this.author.firstName + " " + this.author.lastName;  
}  
```  
What will `console.log(book.getAuthorName())` display if `book.author.firstName` is "Susan" and `book.author.lastName` is "Cain"?  
  
- (A) "Susan"  
- (B) "Cain"  
- (C) "Susan Cain"  
- (D) "undefined undefined"

**Question 6 (ID: 4.7.3):** Fill in the Blank: In the DOM, an \_\_\_\_\_\_\_\_\_\_ node represents the textual content within an element.

**Question 7 (ID: 3.4.9):** Fill in the Blank: In JavaScript, a \_\_\_\_\_\_\_\_ string is considered a falsy value.

**Question 8 (ID: 1.9.8):** Short Answer: What attribute would you use to make a table header cell apply to a row instead of a column for accessibility purposes?

**Question 9 (ID: 4.8.4):** Multiple Choice: What does the children property of a DOM node contain?  
- (A) All the node's children, including whitespace text nodes  
- (B) Only the element nodes that are the node's children  
- (C) Text nodes only  
- (D) Sibling nodes

**Question 10 (ID: 1.10.5):** Short Answer: How can emoji characters be displayed on a web page?  
- Answer: Emoji characters can be displayed using decimal or hexadecimal entities.

**Question 11 (ID: 4.8.8):** Multiple Answer: Which methods can modify the DOM structure by changing node locations? (Select all that apply.)  
- (A) appendChild()  
- (B) insertBefore()  
- (C) removeChild()  
- (D) querySelector()

**Question 12 (ID: 4.3.2):** Multiple Choice: Which attribute in the `<form>` element specifies the URL where the form data should be sent?  
- (A) method  
- (B) action  
- (C) id  
- (D) name

**Question 13 (ID: 4.3.9):** Multiple Choice: In which part of the HTTP request is form data sent when using the POST method?  
- (A) In the URL query string  
- (B) In the path of the URL  
- (C) In the body of the request  
- (D) As HTTP headers

**Question 14 (ID: 4.4.1):** Multiple Choice: What type of input allows users to select multiple options in a form?  
- (A) Radio button  
- (B) Checkbox  
- (C) Password  
- (D) Drop-down menu

**Question 15 (ID: 1.6.3):** Multiple Choice: What type of bullets are used by default for unordered lists without any style modification?   
- (A) Square bullets   
- (B) Disc bullets   
- (C) Circle bullets   
- (D) None

**Question 16 (ID: 3.8.1):** Multiple Choice: What is an array in programming?  
- (A) A single value stored at a specific location  
- (B) An unordered collection of properties  
- (C) An ordered collection of values called elements  
- (D) A function that operates on numbers

**Question 17 (ID: 1.4.3):** Fill in the blank: HTML comments are often used by developers to leave \_\_\_\_\_\_\_\_\_\_ for themselves or others.  
- Notes

**Question 18 (ID: 4.10.9):** Multiple Choice: Which interface provides a set of APIs to manipulate CSS properties of a webpage?  
- (A) DOM  
- (B) HTMLLayout  
- (C) CSSOM  
- (D) JSStyle

**Question 19 (ID: 3.6.8):** Multiple Answers: Which of the following are true about JavaScript arrow functions?  
- (A) They are always named functions  
- (B) They can be assigned to variables  
- (C) They must contain a return statement  
- (D) They can have a single expression returned implicitly

**Question 20 (ID: 1.10.8):** Multiple Answers: Which of the following methods can be used to specify HTML entities? (Select all that apply)  
- (A) Entity names  
- (B) Decimal numbers  
- (C) Binary numbers  
- (D) Hexadecimal numbers

**Question 21 (ID: 3.10.6):** Fill in the Blank: The \_\_ operator removes a key/property from a map or object in JavaScript.

**Question 22 (ID: 1.8.5):** Multiple Choice: Which of the following elements is used to create inline containers without semantic meaning?  
- (A) <span>  
- (B) <div>  
- (C) <section>  
- (D) <p>

**Question 23 (ID: 4.9.7):** Fill in the Blank: The \_\_\_\_\_\_\_\_\_\_ event is triggered when the user's input value is modified in an input or textarea element.

**Question 24 (ID: 3.3.5):** Fill in the Blank: An \_\_\_\_\_\_ statement in programming executes a block of statements if the statement's condition is true, and another block if the condition is false.

**Question 25 (ID: 3.4.5):** Fill in the Blank: When using the conditional (ternary) operator `x ? y : z;`, if `x` evaluates to false, the value of \_\_\_\_\_\_\_\_ is returned.

**Question 26 (ID: 4.4.8):** Short Answer: How is a boolean attribute, such as the disabled attribute, treated when it is present in an HTML element?

**Question 27 (ID: 2.1.5):** Multiple Answers: Which of the following are valid ways to apply CSS to an HTML document? (Select all that apply)  
- (A) Inline styles  
- (B) Embedded stylesheets  
- (C) External stylesheets  
- (D) Inline JavaScript

**Question 28 (ID: 3.2.8):** Multiple Choice: After executing `x = parseInt("abc")`, what will the value of `x` be?  
- (A) 0  
- (B) NaN  
- (C) "abc"  
- (D) undefined

**Question 29 (ID: 1.7.4):** Short Answer: What happens when a hyperlink with a `mailto` scheme is clicked?

**Question 30 (ID: 3.2.2):** Short Answer: Using JavaScript, what will the value of `x` be after executing the following code snippet?  
  
```javascript  
var x = 4;  
x++;  
x \*= 3;  
```

**Question 31 (ID: 4.1.10):** Multiple Choice: Which of the following is the correct command to log the current date and time to the console in JavaScript?  
- (A) `console.log(new Date());`  
- (B) `console.log(Date.now());`  
- (C) `console.log(Date.getTime());`  
- (D) `console.log(Date.current());`

**Question 32 (ID: 1.2.8):** Short Answer: What mode is a webpage rendered in if the DOCTYPE is omitted or characters precede it in the document?

**Question 33 (ID: 4.9.9):** Short Answer: How does the addEventListener() method differ from setting the DOM node event handler property directly?

**Question 34 (ID: 3.11.3):** Multiple Choice: How can you determine the number of characters in a string?  
- (A) Use the size property  
- (B) Use the length property  
- (C) Call the getSize() method  
- (D) Use the charCount method

**Question 35 (ID: 1.9.7):** Multiple Answers: Which elements are typically used in tables to improve accessibility for screen readers? (Select all that apply)  
- (A) <th> with scope attribute  
- (B) <caption>  
- (C) <tfoot>  
- (D) <colgroup>

**Question 36 (ID: 2.1.8):** Multiple Choice: In case of a conflict between an inline style and an external stylesheet, which one will take precedence?  
- (A) External stylesheet  
- (B) Embedded stylesheet  
- (C) Browser default styles  
- (D) Inline style

**Question 37 (ID: 1.1.1):** Multiple Choice: What do IP addresses primarily allow computers to do on the internet?  
- (A) Connect to local networks  
- (B) Communicate with each other  
- (C) Store data securely  
- (D) Process information faster

**Question 38 (ID: 3.4.2):** Multiple Choice: What does the expression `(score >= 60 ? "passing" : "failing")` return if `score` is 75?   
- (A) "passing"   
- (B) "failing"   
- (C) true   
- (D) false

**Question 39 (ID: 4.3.8):** Multiple Answers: Which of the following are considered primary attributes of the `<input>` element? (Select all that apply)  
- (A) method  
- (B) type  
- (C) name  
- (D) value

**Question 40 (ID: 3.6.7):** Short Answer: Provide an example of a function name that uses camelCase as recommended for JavaScript.  
- Answer: displayLargest

**Question 41 (ID: 4.4.5):** Multiple Answers: Choose all that apply. Which elements or attributes are used to group related form inputs?  
- (A) <fieldset>  
- (B) name  
- (C) id  
- (D) <legend>

**Question 42 (ID: 1.5.8):** Multiple Choice: Which attribute of the `<img>` tag provides a text description for accessibility?   
- (A) src   
- (B) alt   
- (C) title   
- (D) href

**Question 43 (ID: 1.9.9):** Multiple Choice: Which property in a CSS style rule would you modify to display borders around table cells?  
- (A) background-color  
- (B) margin  
- (C) border  
- (D) padding

**Question 44 (ID: 2.5.7):** Short Answer: In CSS, how can you horizontally center a block element with a fixed width?  
- Answer: Set the element's margin to "margin: auto;".

**Question 45 (ID: 3.1.8):** Short Answer: What happens when two JavaScript statements are on the same line without a semicolon separating them?

**Question 46 (ID: 4.1.9):** Multiple Choice: How can you initialize a Date object to represent exactly one second past the Unix Epoch?  
- (A) `new Date(1)`  
- (B) `new Date(1000)`  
- (C) `new Date(0)`  
- (D) `new Date(-1000)`

**Question 47 (ID: 1.10.10):** Short Answer: What should you use instead of the < character directly in HTML to avoid confusion with tags?  
- Answer: Use the entity &lt; instead of the < character directly.

**Question 48 (ID: 4.10.10):** Fill in the blank: In the context of modifying a stylesheet, the method \_\_\_\_\_\_\_\_\_\_\_\_ inserts a new rule into the stylesheet.

**Question 49 (ID: 3.1.3):** Short Answer: What is the primary use of JavaScript in modern web browsers?

**Question 50 (ID: 4.5.2):** Fill in the blank: To improve the appearance of a button and provide a visual cue that it is pressable, change the default mouse cursor to a \_\_\_\_\_\_\_\_\_\_ icon.

# Answers

**Answer to Question 1:** (A) required, (B) pattern, (C) maxlength

**Answer to Question 2:** (B) To check input for correctness and ensure data integrity

**Answer to Question 3:** (A) totalPoints

**Answer to Question 4:** Unicode

**Answer to Question 5:** (C) "Susan Cain"

**Answer to Question 6:** Text

**Answer to Question 7:** Empty

**Answer to Question 8:** scope

**Answer to Question 9:** (B) Only the element nodes that are the node's children

**Answer to Question 10:** Emoji characters can be displayed using decimal or hexadecimal entities.

**Answer to Question 11:** (A) appendChild(), (B) insertBefore(), (C) removeChild()

**Answer to Question 12:** (B) action

**Answer to Question 13:** (C) In the body of the request

**Answer to Question 14:** (B) Checkbox

**Answer to Question 15:** (B) Disc bullets

**Answer to Question 16:** (C) An ordered collection of values called elements

**Answer to Question 17:** Notes

**Answer to Question 18:** (C) CSSOM

**Answer to Question 19:** (B) They can be assigned to variables, (D) They can have a single expression returned implicitly

**Answer to Question 20:** (A) Entity names; (B) Decimal numbers; (D) Hexadecimal numbers

**Answer to Question 21:** delete

**Answer to Question 22:** (A) <span>

**Answer to Question 23:** Input

**Answer to Question 24:** if-else

**Answer to Question 25:** z

**Answer to Question 26:** A boolean attribute is true when present and false when absent.

**Answer to Question 27:** (A) Inline styles, (B) Embedded stylesheets, (C) External stylesheets

**Answer to Question 28:** (B) NaN

**Answer to Question 29:** It opens an email program addressed to the specified email address.

**Answer to Question 30:** 15

**Answer to Question 31:** (A) `console.log(new Date());`

**Answer to Question 32:** Quirks mode

**Answer to Question 33:** The addEventListener() method allows for multiple handlers for a single event on an element and keeps content and functionality separate, unlike setting the DOM node event handler property directly, which only allows one handler.

**Answer to Question 34:** (B) Use the length property

**Answer to Question 35:** (A) <th> with scope attribute, (B) <caption>

**Answer to Question 36:** (D) Inline style

**Answer to Question 37:** (B) Communicate with each other

**Answer to Question 38:** (A) "passing"

**Answer to Question 39:** (B) type, (C) name, (D) value

**Answer to Question 40:** displayLargest

**Answer to Question 41:** (A) <fieldset>, (D) <legend>

**Answer to Question 42:** (B) alt

**Answer to Question 43:** (C) border

**Answer to Question 44:** Set the element's margin to "margin: auto;".

**Answer to Question 45:** A syntax error occurs if there are no semicolons separating them.

**Answer to Question 46:** (B) `new Date(1000)`

**Answer to Question 47:** Use the entity &lt; instead of the < character directly.

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

**Answer to Question 49:** To allow web pages to dynamically respond to user events and change content

**Answer to Question 50:** pointer