# Randomly Selected Questions - Set 3

**Question 1 (ID: 2.6.4):** Fill in the Blank: In CSS, the greater-than character (>) is used to specify a \_\_\_\_\_\_\_\_ selector.

**Question 2 (ID: 4.5.10):** Short Answer: How do you style an input field to have a red border indicating an error when the input is invalid?

**Question 3 (ID: 3.1.4):** Multiple Answers: Select all that are true about ECMAScript and JavaScript.   
- (A) ECMAScript and JavaScript refer to the same language.   
- (B) JavaScript engines use Just-In-Time (JIT) compilation.   
- (C) JavaScript is only for web applications.   
- (D) Brendan Eich named ECMAScript.

**Question 4 (ID: 3.1.2):** Fill in the blank: JavaScript was standardized by \_\_\_ International in 1997 and called ECMAScript.

**Question 5 (ID: 4.11.9):** Fill in the Blank: A \_\_\_\_\_\_\_\_\_\_ must contain exactly 16 digits, as a common example of format validation for user-entered data in web forms.

**Question 6 (ID: 4.9.2):** Multiple Choice: Which of the following events is NOT typically involved in the event capturing or bubbling phases?  
- (A) Blur  
- (B) Focus  
- (C) Click  
- (D) Load

**Question 7 (ID: 1.7.2):** Fill in the blank: The attribute used within the `<a>` tag to specify the destination URL is the \_\_\_\_\_\_\_ attribute.

**Question 8 (ID: 1.5.6):** Multiple Choice: When defining a favicon for a webpage, which HTML element is used?   
- (A) `<img>`   
- (B) `<icon>`   
- (C) `<image>`   
- (D) `<link>`

**Question 9 (ID: 1.9.10):** Fill in the blank: A single table cell that spans multiple rows uses the attribute called \_\_\_\_\_\_\_ applied to <td> or <th> elements.

**Question 10 (ID: 1.2.5):** Multiple Choice: Which of the following does NOT require a closing tag in HTML?  
- (A) `<p>`  
- (B) `<div>`  
- (C) `<strong>`  
- (D) `<br>`

**Question 11 (ID: 3.11.10):** Multiple Choice: What does a template literal use to embed variables or expressions directly within a string?  
- (A) Curly braces only  
- (B) ${} within back-ticks  
- (C) Double quotes  
- (D) Single quotes

**Question 12 (ID: 2.1.1):** Multiple Choice: What does the acronym CSS stand for?  
- (A) Critical Style Sections  
- (B) Cascading Style Sheets  
- (C) Computer Styled Scheme  
- (D) Creative Style Script

**Question 13 (ID: 3.4.10):** Multiple Choice: When converting a group of else-if statements to a switch statement, under which condition should the switch be used?   
- (A) When comparing string values only.   
- (B) When using strict comparison of a single expression to multiple values.   
- (C) When the conditions are mutually exclusive.   
- (D) When working with functions.

**Question 14 (ID: 1.1.9):** Multiple Choice: What does a 404 status code typically indicate?  
- (A) The server is busy  
- (B) Page not found  
- (C) The internet is down  
- (D) Successful connection

**Question 15 (ID: 1.3.1):** Multiple Choice: Which HTML element is used to create a paragraph in an HTML document?   
- (A) <div>   
- (B) <span>   
- (C) <p>   
- (D) <section>

**Question 16 (ID: 2.5.2):** Multiple Choice: Which CSS property is used to set the space between the border and the content?  
- (A) Margin  
- (B) Padding  
- (C) Border  
- (D) Width

**Question 17 (ID: 1.5.3):** Short Answer: What is the aspect ratio of an image that is 1000 pixels wide and 500 pixels high?

**Question 18 (ID: 4.2.9):** Multiple Choice: How many times does the regex /moo/gi find matches in the string "Moo the cow mooed at the moon"?  
- (A) 1  
- (B) 2  
- (C) 3  
- (D) 4

**Question 19 (ID: 2.4.8):** Fill in the Blank: Most web browsers use a default font size of \_\_\_\_\_\_\_\_\_\_.

**Question 20 (ID: 1.10.4):** Fill in the Blank: The Euro symbol can be written in HTML as \_\_\_\_\_\_\_.  
- Answer: &euro;

**Question 21 (ID: 3.10.4):** Multiple Choice: Which operator is used in JavaScript to check for the existence of a key in an object?  
- (A) exists  
- (B) in  
- (C) has  
- (D) contains

**Question 22 (ID: 4.5.4):** Short Answer: What CSS rule would you add to make the labels of input elements right-aligned in a form?

**Question 23 (ID: 3.10.2):** Multiple Choice: In JavaScript object maps, how is the value of a key usually accessed?  
- (A) Using a period (.)  
- (B) Using parentheses ()  
- (C) Using brackets []  
- (D) Using a semicolon ;

**Question 24 (ID: 3.5.1):** Multiple Choice: What is a characteristic of a while loop?  
- (A) It executes the loop body before checking the loop's condition.  
- (B) It combines loop initialization, condition, and final expression.  
- (C) It checks the loop's condition before executing the loop body.  
- (D) It always executes at least once.

**Question 25 (ID: 1.6.6):** Multiple Choice: In the code snippet `<ol type="A">`, what will be the numbering format for the list items?   
- (A) Numbers (1, 2, 3, …)   
- (B) Lowercase letters (a, b, c, …)   
- (C) Uppercase letters (A, B, C, …)   
- (D) Roman numerals (i, ii, iii, …)

**Question 26 (ID: 1.4.6):** Multiple Answer: Select all that are valid uses of the HTML comment tag.  
- [ ] Display secret messages  
- [ ] Leave notes for developers  
- [ ] Tell the browser to ignore certain parts of the HTML  
- [ ] Create nested comments within comments

**Question 27 (ID: 3.7.2):** Multiple Choice: Which keyword was added to JavaScript in 2015 that allows for block scope?  
- (A) var  
- (B) let  
- (C) const  
- (D) scope

**Question 28 (ID: 1.1.7):** Fill in the blank: A URL is short for \_\_.  
- Uniform Resource Locator

**Question 29 (ID: 3.10.8):** Multiple Choice: Which JavaScript object operation deletes an element with a specific key?  
- (A) .remove()  
- (B) .filter()  
- (C) .delete()  
- (D) .erase()

**Question 30 (ID: 3.3.3):** Short Answer: What will be logged to the console after the following JavaScript code is executed?   
```  
let fee = 30;  
let age = 12;  
if (age < 18) {  
 fee -= 5;  
}  
if (age < 5) {  
 fee = 0;  
}  
console.log("fee is $" + fee);  
```

**Question 31 (ID: 1.4.1):** Multiple Choice: How does an HTML comment start and end?  
- (A) <!-- and -->  
- (B) // and //  
- (C) /\* and \*/  
- (D) [ and ]

**Question 32 (ID: 2.4.10):** Short Answer: What is the intended purpose of starting a font-family list with a specific font and ending with a generic family?

**Question 33 (ID: 3.9.1):** Multiple Choice: What is an object in JavaScript?  
- (A) An ordered collection of elements  
- (B) A name-value pair with a strict order  
- (C) An unordered collection of properties  
- (D) A fixed array of properties

**Question 34 (ID: 2.7.10):** Multiple Choice: In a flex container, if you want all elements to appear as a single line even when there is insufficient space, which `flex-wrap` property value should you use?  
- (A) `wrap`  
- (B) `nowrap`  
- (C) `wrap-reverse`  
- (D) `wrap-around`

**Question 35 (ID: 1.7.6):** Multiple Answer: Which of the following are rules for an `id` attribute in a fragment identifier? Select all that apply.  
- (A) It can start with a number  
- (B) It cannot contain whitespace characters  
- (C) It is case sensitive  
- (D) It must be unique within the document

**Question 36 (ID: 4.4.9):** Multiple Choice: Why is good practice to use label elements with checkboxes?  
- (A) To make the checkbox larger  
- (B) To enable selecting the checkbox by clicking the label  
- (C) To add placeholders for the checkbox  
- (D) To style the checkbox with CSS

**Question 37 (ID: 3.9.8):** Fill in the Blank: When a JavaScript method is defined with an anonymous function assigned to an object's property, it is called a \_\_\_\_\_\_\_\_\_\_\_.

**Question 38 (ID: 1.2.2):** Multiple Choice: In HTML, what does the `<meta charset="UTF-8">` tag specify?  
- (A) The script language of the document  
- (B) The style of the document  
- (C) The character encoding of the document  
- (D) The connection protocol for the document

**Question 39 (ID: 3.2.5):** Multiple Answers: Which of the following JavaScript operators perform arithmetic computations? (Select all that apply)  
- (A) +  
- (B) +  
- (C) +=  
- (D) %

**Question 40 (ID: 1.5.10):** Multiple Choice: Which attribute should be modified to ensure an `<img>` element can still convey information if an image file is missing?   
- (A) src   
- (B) alt   
- (C) title   
- (D) href

**Question 41 (ID: 4.7.7):** Fill in the Blank: The \_\_\_\_\_\_\_\_\_\_ property gets or sets a DOM node’s text content without HTML tags.

**Question 42 (ID: 4.2.7):** Fill in the Blank: A regular expression pattern that performs a case-insensitive match is modified by the \_\_\_\_\_\_ modifier.

**Question 43 (ID: 3.10.10):** Multiple Answers: Which of the following are properties or methods associated with JavaScript Map objects? (Select all that apply)  
- (A) .push()  
- (B) .size  
- (C) .get(key)  
- (D) .set(key, value)  
- (E) .pop()

**Question 44 (ID: 3.11.7):** Multiple Choice: What will `s.toUpperCase()` return if `s` is "good morning"?  
- (A) "good morning"  
- (B) "Good Morning"  
- (C) "GOOD MORNING"  
- (D) "good Morning"

**Question 45 (ID: 2.2.2):** Fill in the blank: To target an HTML element with the ID attribute set to "mainContent", the correct CSS syntax is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Question 46 (ID: 2.3.10):** Fill in the blank: The display property value that hides an element from being displayed is \_\_\_\_\_\_\_\_\_\_.

**Question 47 (ID: 3.9.2):** Fill in the Blank: An object property is a \_\_\_\_\_\_\_\_\_\_\_.

**Question 48 (ID: 4.3.4):** Multiple Choice: Which of the following is not a valid widget type for the `<input>` element?  
- (A) text  
- (B) file  
- (C) color  
- (D) image

**Question 49 (ID: 4.7.4):** Short Answer: How many child nodes can an 'ol' element have if it contains the list items <li>Gold</li>, <li>Silver</li>, and <li>Bronze</li>?

**Question 50 (ID: 2.2.5):** Fill in the blank: In the CSS rule ".button:hover { background-color: yellow; }", ".button:hover" is an example of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

# Answers

**Answer to Question 1:** child

**Answer to Question 2:** Use the selector input:invalid { border: 2px solid red; }.

**Answer to Question 3:** (A) ECMAScript and JavaScript refer to the same language. (B) JavaScript engines use Just-In-Time (JIT) compilation.

**Answer to Question 4:** Ecma

**Answer to Question 5:** credit card number

**Answer to Question 6:** (D) Load

**Answer to Question 7:** href

**Answer to Question 8:** (D) `<link>`

**Answer to Question 9:** rowspan

**Answer to Question 10:** (D) `<br>`

**Answer to Question 11:** (B) ${} within back-ticks

**Answer to Question 12:** (B) Cascading Style Sheets

**Answer to Question 13:** (B) When using strict comparison of a single expression to multiple values.

**Answer to Question 14:** (B) Page not found

**Answer to Question 15:** (C) <p>

**Answer to Question 16:** (B) Padding

**Answer to Question 17:** 2:1

**Answer to Question 18:** (C) 3

**Answer to Question 19:** 16px

**Answer to Question 20:** &euro;

**Answer to Question 21:** (B) in

**Answer to Question 22:** text-align: right;

**Answer to Question 23:** (C) Using brackets []

**Answer to Question 24:** (C) It checks the loop's condition before executing the loop body.

**Answer to Question 25:** (C) Uppercase letters (A, B, C, …)

**Answer to Question 26:** Leave notes for developers, Tell the browser to ignore certain parts of the HTML

**Answer to Question 27:** (B) let

**Answer to Question 28:** Uniform Resource Locator

**Answer to Question 29:** (C) .delete()

**Answer to Question 30:** "fee is $25"

**Answer to Question 31:** (A) <!-- and -->

**Answer to Question 32:** To use the first available font in the list while ensuring a fallback to a similar style if the intended font is not available.

**Answer to Question 33:** (C) An unordered collection of properties

**Answer to Question 34:** (B) `nowrap`

**Answer to Question 35:** (B) It cannot contain whitespace characters, (C) It is case sensitive, (D) It must be unique within the document

**Answer to Question 36:** (B) To enable selecting the checkbox by clicking the label

**Answer to Question 37:** method

**Answer to Question 38:** (C) The character encoding of the document

**Answer to Question 39:** (A), (D)

**Answer to Question 40:** (B) alt

**Answer to Question 41:** textContent

**Answer to Question 42:** i

**Answer to Question 43:** (B) .size, (C) .get(key), (D) .set(key, value)

**Answer to Question 44:** (C) "GOOD MORNING"

**Answer to Question 45:** #mainContent

**Answer to Question 46:** none

**Answer to Question 47:** name-value pair

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

**Answer to Question 49:** 3

**Answer to Question 50:** pseudo-class selector