# Randomly Selected Questions - Set 6

**Question 1 (ID: 2.2.4):** Multiple Answers: Which of the following statements about CSS class and ID selectors are correct? (Select all that apply)  
- (A) An ID selector is specified with a period character.  
- (B) A class selector can be used to style multiple elements.  
- (C) ID selectors must be unique within a document.  
- (D) Class selectors can be combined with other selectors.

**Question 2 (ID: 3.2.4):** Multiple Choice: What will be the value of `secretCode` after the following JavaScript code executes?  
  
```javascript  
secretCode = 10 + "ten";  
```  
  
- (A) 20  
- (B) 10 + 10  
- (C) "10ten"  
- (D) NaN

**Question 3 (ID: 4.1.4):** Multiple Choice: Which method in a Date object would you use to get the day of the month?  
- (A) getDay()  
- (B) getDate()  
- (C) getMonth()  
- (D) getYear()

**Question 4 (ID: 3.1.1):** Multiple Choice: Who invented JavaScript in 1995?   
- (A) Bill Gates   
- (B) Brendan Eich   
- (C) Tim Berners-Lee   
- (D) Linus Torvalds

**Question 5 (ID: 3.3.1):** Multiple Choice: What is the purpose of an if statement in programming?   
- (A) To declare a variable   
- (B) To iterate through a list   
- (C) To execute a group of statements if a condition is true   
- (D) To define a function

**Question 6 (ID: 4.4.10):** Fill in the blank: A \_\_\_\_\_\_\_ button is used to submit form data, whereas a button of type "button" is typically used with JavaScript for other actions.

**Question 7 (ID: 1.5.4):** Fill in the Blank: The `<img>` element retrieves the image using the \_\_\_\_ attribute.

**Question 8 (ID: 3.5.7):** Multiple Choice: Which loop is guaranteed to execute its body at least once?  
- (A) while  
- (B) do-while  
- (C) for  
- (D) foreach

**Question 9 (ID: 1.4.4):** Short Answer: Rewrite the HTML code using a comment so that the second paragraph is not displayed: `<p>This paragraph will self-destruct in five seconds. Good luck...</p>`  
  
- Answer: `<!-- <p>This paragraph will self-destruct in five seconds. Good luck...</p> -->`

**Question 10 (ID: 1.8.2):** Multiple Choice: Which element is used for marking up self-contained content that could be reused independently, such as a news article?  
- (A) <footer>  
- (B) <article>  
- (C) <section>  
- (D) <nav>

**Question 11 (ID: 2.1.3):** Short Answer: What separator is used to divide multiple declarations in a CSS declaration block?

**Question 12 (ID: 1.4.8):** Short Answer: Identify whether the following HTML is valid or invalid: `<p>Bananas grow <!--in bushes.</p>--> on a tree.`  
  
- Answer: Invalid

**Question 13 (ID: 4.5.7):** Multiple Choice: What CSS property should be set to improve the usability of labels as clickable elements in forms?  
- (A) cursor: crosshair;  
- (B) cursor: pointer;  
- (C) cursor: default;  
- (D) cursor: wait;

**Question 14 (ID: 4.2.3):** Multiple Choice: Which of the following strings does NOT match the regex /w+hy/?  
- (A) why  
- (B) hy  
- (C) wwwwhy  
- (D) whywhy

**Question 15 (ID: 4.1.2):** Fill in the Blank: The Unix Epoch is defined as the moment in time at January 1, 1970, at what time standard?  
- \_\_\_\_\_\_\_\_\_\_

**Question 16 (ID: 3.10.9):** Multiple Choice: Which loop is specifically ideal for iterating over arrays but can also be used to iterate over Map objects?  
- (A) for-in loop  
- (B) forEach loop  
- (C) for-of loop  
- (D) while loop

**Question 17 (ID: 3.7.6):** Fill in the blank: A variable declared using 'var' outside a function has \_\_\_\_\_\_\_ scope, meaning it is accessible from anywhere in the code.

**Question 18 (ID: 1.6.10):** Short Answer: Which element is used for a sequenced collection of list items that are usually shown using numbers or letters?

**Question 19 (ID: 4.5.8):** Fill in the blank: To create custom radio buttons, the content before the label is displayed as a single empty space within a \_\_\_\_\_\_\_\_\_\_ border.

**Question 20 (ID: 1.1.3):** Multiple Choice: Which version of the Internet Protocol uses 128-bit addresses?  
- (A) IPv2  
- (B) IPv4  
- (C) IPv6  
- (D) IPv8

**Question 21 (ID: 1.1.2):** Fill in the blank: An IP address is usually represented numerically and typically consists of \_\_ bits in IPv4.  
- 32

**Question 22 (ID: 4.9.1):** Multiple Choice: What term describes a programming style where code runs only in response to specific events?  
- (A) Synchronous programming  
- (B) Event-driven programming  
- (C) Procedural programming  
- (D) Object-oriented programming

**Question 23 (ID: 2.2.1):** Multiple Choice: Which CSS selector would you use to apply styles to all paragraph elements?  
- (A) .p  
- (B) #p  
- (C) p  
- (D) p#

**Question 24 (ID: 4.5.6):** Multiple Answers: What visual cues help a user know that a blue rectangle with "Register" is a button?  
- The button has rounded corners.  
- The pointer icon appears when hovering over the button.  
- The button has a thick border.  
- The button color changes when hovering.

**Question 25 (ID: 3.2.7):** Fill in the blank: The JavaScript function `parseInt("123")` will return the number \_\_.

**Question 26 (ID: 4.7.10):** Multiple Choice: By modifying the 'innerHTML' property, you can:  
- (A) Only retrieve textual content  
- (B) Set or get both the content and the structure of a node  
- (C) Retrieve attribute values  
- (D) Delete a node

**Question 27 (ID: 2.3.7):** Fill in the blank: A CSS variable is declared using two dashes followed by the variable name, and accessed with the \_\_\_\_\_\_\_\_\_\_ function.

**Question 28 (ID: 2.7.1):** Multiple Choice: What CSS property should be applied to an element to make it a flex container?  
- (A) `display: block;`  
- (B) `display: inline;`  
- (C) `display: flex;`  
- (D) `display: grid;`

**Question 29 (ID: 3.10.5):** Short Answer: When using a `for-in` loop to iterate over an object map, what does the loop variable represent during each iteration?

**Question 30 (ID: 3.7.1):** Fill in the blank: A JavaScript variable's \_\_\_\_\_\_\_ is the context in which the variable can be accessed.

**Question 31 (ID: 4.2.5):** Multiple Choice: Which special character in regular expressions matches any single character except the newline?  
- (A) \w  
- (B) \d  
- (C) .  
- (D) \*

**Question 32 (ID: 4.5.9):** Multiple Choice: Which property/value setting hides traditional browser radio buttons?  
- (A) visibility: hidden;  
- (B) appearance: none;  
- (C) display: none;  
- (D) opacity: 0;

**Question 33 (ID: 2.5.1):** Multiple Choice: What is the innermost component of the box model?  
- (A) Padding  
- (B) Content  
- (C) Border  
- (D) Margin

**Question 34 (ID: 4.1.6):** Multiple Choice: When using the Date constructor `new Date(year, month, day)`, what is the range of values for the month parameter?  
- (A) 1-12  
- (B) 0-11  
- (C) 1-11  
- (D) 0-10

**Question 35 (ID: 3.2.1):** Multiple Choice: What is the result of the expression `3 + 5 \* 2`?  
- (A) 10  
- (B) 13  
- (C) 16  
- (D) 17

**Question 36 (ID: 1.8.1):** Multiple Choice: What is a parent container in a web document?  
- (A) A container that contains interactive elements  
- (B) A container that contains the entire HTML document  
- (C) A container that resides inside another element  
- (D) A container that another element resides in

**Question 37 (ID: 4.3.3):** Fill in the blank: The default HTTP request method used by the `<form>` element if no `method` attribute is specified is the \_\_\_\_\_\_\_ method.

**Question 38 (ID: 1.8.4):** Short Answer: Name two block elements that typically start and end on new lines.

**Question 39 (ID: 2.6.7):** Short Answer: What is an attribute selector, and how is it used in CSS?

**Question 40 (ID: 1.3.2):** Fill in the Blank: Multiple spaces in HTML are displayed as a \_\_\_\_\_\_\_\_ when rendered by browsers.

**Question 41 (ID: 1.9.1):** Multiple Choice: Which HTML tag is used to create a table row?  
- (A) <td>  
- (B) <th>  
- (C) <tr>  
- (D) <table>

**Question 42 (ID: 2.3.1):** Multiple Choice: Which CSS property is used to change the background color of an element?  
- (A) background-image  
- (B) color  
- (C) background-opacity  
- (D) background-color

**Question 43 (ID: 1.3.3):** Short Answer: What is a common error involving paragraph tags in HTML?

**Question 44 (ID: 2.3.4):** Short Answer: What is the range of values for the alpha component in an RGBA color specification?

**Question 45 (ID: 1.4.5):** Multiple Choice: What should you do to a paragraph in HTML to prevent it from showing in the preview window?  
- (A) Delete the paragraph  
- (B) Add it to the end of the document  
- (C) Wrap it in a comment  
- (D) Use a different tag

**Question 46 (ID: 1.5.2):** Multiple Choice: Which of the following attributes is required for the `<img>` element?   
- (A) href   
- (B) title   
- (C) alt   
- (D) class

**Question 47 (ID: 3.6.5):** Fill in the Blank: Invoking a function's name, known as a \_\_\_\_\_\_, causes the function's statements to execute.  
- Answer: function call

**Question 48 (ID: 1.4.7):** Short Answer: Identify whether the following HTML is valid or invalid: `<p>This sentence does < !-not--> contain a comment</p>`  
  
- Answer: Invalid

**Question 49 (ID: 4.11.4):** Short Answer: When using JavaScript for form validation, what is the purpose of the isNaN() function?

**Question 50 (ID: 3.1.6):** Fill in the blank: A constant is an initialized variable whose value cannot change and is declared with the \_\_\_ keyword.

# Answers

**Answer to Question 1:** (B) A class selector can be used to style multiple elements. (C) ID selectors must be unique within a document. (D) Class selectors can be combined with other selectors.

**Answer to Question 2:** (C) "10ten"

**Answer to Question 3:** (B) getDate()

**Answer to Question 4:** (B) Brendan Eich

**Answer to Question 5:** (C) To execute a group of statements if a condition is true

**Answer to Question 6:** submit

**Answer to Question 7:** src

**Answer to Question 8:** (B) do-while

**Answer to Question 9:** `<!-- <p>This paragraph will self-destruct in five seconds. Good luck...</p> -->`

**Answer to Question 10:** (B) <article>

**Answer to Question 11:** Semicolon (;)

**Answer to Question 12:** Invalid

**Answer to Question 13:** (B) cursor: pointer;

**Answer to Question 14:** (D) whywhy

**Answer to Question 15:** UTC (Coordinated Universal Time)

**Answer to Question 16:** (C) for-of loop

**Answer to Question 17:** global

**Answer to Question 18:** <ol>

**Answer to Question 19:** circular

**Answer to Question 20:** (C) IPv6

**Answer to Question 21:** 32

**Answer to Question 22:** (B) Event-driven programming

**Answer to Question 23:** (C) p

**Answer to Question 24:** The button has rounded corners.; The pointer icon appears when hovering over the button.; The button color changes when hovering.

**Answer to Question 25:** 123

**Answer to Question 26:** (B) Set or get both the content and the structure of a node

**Answer to Question 27:** var()

**Answer to Question 28:** (C) `display: flex;`

**Answer to Question 29:** The loop variable represents each key of the object map during each iteration.

**Answer to Question 30:** scope

**Answer to Question 31:** (C) .

**Answer to Question 32:** (B) appearance: none;

**Answer to Question 33:** (B) Content

**Answer to Question 34:** (B) 0-11

**Answer to Question 35:** (C) 13

**Answer to Question 36:** (D) A container that another element resides in

**Answer to Question 37:** GET

**Answer to Question 38:** <p>, <h1>

**Answer to Question 39:** An attribute selector is used in CSS to select elements with a specific attribute or attribute value. It is specified with square brackets, such as `[attribute]` or `[attribute="value"]`.

**Answer to Question 40:** single space

**Answer to Question 41:** (C) <tr>

**Answer to Question 42:** (D) background-color

**Answer to Question 43:** A common error is forgetting the closing <p> tag or trying to nest one paragraph inside another, which can lead to HTML validation errors.

**Answer to Question 44:** Between 0 and 1

**Answer to Question 45:** (C) Wrap it in a comment

**Answer to Question 46:** (C) alt

**Answer to Question 47:** function call

**Answer to Question 48:** Invalid

**Answer to Question 49:** The isNaN() function is used to check if a value is not a number (NaN).

**Answer to Question 50:** const