# Randomly Selected Questions - Set 5

**Question 1 (ID: 4.9.1):** Multiple Choice: What is an event in JavaScript?  
  
- (A) A user action or occurrence detected by the browser  
- (B) A method to style HTML elements  
- (C) A type of variable in JavaScript  
- (D) A function that loads the page

**Question 2 (ID: 1.6.10):** True/False: The <li> element can be used outside of <ul> or <ol> elements.

**Question 3 (ID: 3.3.6):** Multi-Select: Which of the following are valid ways to compare equality in JavaScript? (Select all that apply)  
- (A) `x == y`  
- (B) `x === y`  
- (C) `x != y`  
- (D) `x <> y`

**Question 4 (ID: 3.7.6):** Multiple Choice: What will be the output of the following code?  
  
javascript  
Copy code  
function testLet() {  
 if (true) {  
 let x = 10;  
 }  
 console.log(x);  
}  
testLet();  
(A) 10  
(B) undefined  
(C) ReferenceError  
(D) null

**Question 5 (ID: 4.1.9):** Multiple Choice: What does the `setFullYear()` method do in JavaScript?  
  
- (A) Sets the year for the `Date` object to a 2-digit year.  
- (B) Sets the year for the `Date` object to a 4-digit year.  
- (C) Sets the year, month, and date for the `Date` object.  
- (D) It doesn't exist in JavaScript.

**Question 6 (ID: 4.10.8):** Multiple Choice: Which CSS property is modified in the following code?  
  
document.getElementById("box").style.backgroundColor = "blue";  
  
- (A) `background-color`  
- (B) `color`  
- (C) `border-color`  
- (D) `width`

**Question 7 (ID: 3.3.9):** Multi-Select: Which of the following logical operators can be used to combine multiple conditions in JavaScript? (Select all that apply)  
- (A) `&&`  
- (B) `||`  
- (C) `!=`  
- (D) `!`

**Question 8 (ID: 1.4.6):** Multiple Choice: How should HTML comments be used in a document?  
 - (A) To improve the page's SEO by including keywords  
 - (B) To temporarily disable code without deleting it  
 - (C) To create secure sections of code that cannot be viewed by the user  
 - (D) To automatically update content on a webpage

**Question 9 (ID: 3.10.4):** Multiple Choice: What is the purpose of the `delete` operator in JavaScript?  
  
- (A) To remove a property from an object  
- (B) To clear all properties from an object  
- (C) To reset a property to `undefined`  
- (D) To throw an error if the property does not exist

**Question 10 (ID: 4.6.8):** Multiple Choice: Which property of the window object can be used to get the current URL of a webpage?  
  
- (A) window.location.href  
- (B) window.url  
- (C) window.currentURL  
- (D) window.pageURL

**Question 11 (ID: 1.7.5):** Multiple Choice: What does clicking a hyperlink with an `href` attribute containing `mailto:someone@example.com` do?  
 - (A) Opens a webpage at `example.com`  
 - (B) Starts an email program to send an email to `someone@example.com`  
 - (C) Downloads a file from `example.com`  
 - (D) Connects to a live chat with `someone@example.com`

**Question 12 (ID: 3.6.2):** Multiple Choice: What is the output of the following code?  
  
function displaySum(a, b, c) {  
 let sum = a + b + c;  
 console.log(sum);  
}  
displaySum(2, 4, 6);  
  
- (A) 6  
- (B) 10  
- (C) 12  
- (D) 24

**Question 13 (ID: 4.1.10):** Multiple Choice: Which of the following methods can be used to get the day of the week from a `Date` object?  
  
- (A) `getWeekDay()`  
- (B) `getDay()`  
- (C) `getDate()`  
- (D) `getFullDay()`

**Question 14 (ID: 4.7.2):** Multiple Choice: Which of the following is created when an HTML attribute is added to an element?  
  
- (A) A text node  
- (B) A comment node  
- (C) An attribute node  
- (D) An element node

**Question 15 (ID: 3.4.8):** Multiple Choice: In the following switch statement, what will be the value of `coin`?  
let change = 10;   
switch (change) {   
 case 1: coin = "penny";   
 break;   
 case 5: coin = "nickel";   
 break;   
 case 10: coin = "dime";   
 break;  
 case 25: coin = "quarter";   
 break;   
 default: coin = "unknown"; }   
 console.log(coin);  
  
- (A) "penny"  
- (B) "nickel"  
- (C) "dime"  
- (D) "unknown"

**Question 16 (ID: 3.9.7):** Multiple Choice: What does the this keyword refer to inside a method?  
  
(A) The global object  
(B) The object that owns the method  
(C) The function scope  
(D) The nearest variable in scope

**Question 17 (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 18 (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 19 (ID: 4.10.3):** Multi-Select: Which of the following methods can modify the inline style of a DOM element? (Select all that apply)  
  
- (A) `setProperty()`  
- (B) `getPropertyValue()`  
- (C) `removeProperty()`  
- (D) `addEventListener()`

**Question 20 (ID: 4.7.10):** Multiple Choice: Which DOM method is used to remove an attribute from an element?  
  
- (A) `removeChild()`  
- (B) `removeAttribute()`  
- (C) `setAttribute()`  
- (D) `deleteNode()`

**Question 21 (ID: 4.8.7):** Multi-Select: Which of the following methods can be used to create a new node in the DOM? (Select all that apply)  
  
- (A) `createElement()`  
- (B) `createTextNode()`  
- (C) `cloneNode()`  
- (D) `insertBefore()`

**Question 22 (ID: 1.8.4):** Multiple Choice: Which HTML element is typically used as a generic container for styling purposes without any semantic meaning?  
 - (A) `<p>`  
 - (B) `<span>`  
 - (C) `<div>`  
 - (D) `<header>`

**Question 23 (ID: 3.9.8):** Multi-Select: Which of the following statements about object methods is true? (Select all that apply)  
  
(A) Methods can access other properties using this.  
(B) Methods can be added to an object after the object is created.  
(C) Methods must be declared inside the object literal.  
(D) Methods can return values.

**Question 24 (ID: 1.5.7):** Multiple Choice: Which attribute in an <img> tag defines the space an image occupies before it loads?  
 - (A) alt  
 - (B) width and height  
 - (C) src  
 - (D) style

**Question 25 (ID: 2.2.9):** Multiple Choice: What is the result of applying multiple CSS rules with different selectors to the same element?  
 - (A) Only the first rule is applied.  
 - (B) Only the last rule is applied.  
 - (C) All rules are applied, but properties are combined based on specificity.  
 - (D) The browser randomly chooses which rule to apply.

**Question 26 (ID: 1.3.1):** True/False: The <p> tag is used to create line breaks in HTML documents.

**Question 27 (ID: 2.6.7):** Multi-Select: Which CSS properties can be used to control the position of an element when `position: absolute;` or `position: relative;` is set? (Select all that apply)  
 - (A) top  
 - (B) left  
 - (C) bottom  
 - (D) right

**Question 28 (ID: 2.7.4):** Multi-Select: Which of the following properties are used to control the wrapping of flex items? (Select all that apply)  
 - (A) `flex-wrap`  
 - (B) `flex-basis`  
 - (C) `flex-shrink`  
 - (D) `flex-direction`

**Question 29 (ID: 1.7.3):** True/False: The `mailto:` URL scheme in an `<a>` tag's href attribute is used to link to another webpage.

**Question 30 (ID: 3.7.2):** Multiple Choice: In JavaScript, what type of scope does a variable declared with `var` inside a function have?  
  
- (A) Global scope  
- (B) Block scope  
- (C) Function scope  
- (D) Lexical scope

**Question 31 (ID: 3.6.5):** Multiple Choice: What is the value of `result` in the following code?  
  
function multiply(x, y) {  
 return x \* y;  
}  
let result = multiply(4, 5);  
console.log(result);  
  
- (A) 20  
- (B) 9  
- (C) NaN  
- (D) undefined

**Question 32 (ID: 2.2.7):** Multiple Choice: If an element has multiple classes, which class's styles are applied?  
 - (A) The first class listed in the class attribute  
 - (B) The last class listed in the class attribute  
 - (C) All applicable styles are combined  
 - (D) Only the class with the highest specificity

**Question 33 (ID: 1.5.5):** Multiple Choice: What happens if the 'src' attribute of an <img> tag is missing?  
 - (A) The image displays as a broken icon.  
 - (B) The browser automatically searches for a valid source.  
 - (C) No image space is rendered in the document.  
 - (D) The alt text is displayed in place of the image.

**Question 34 (ID: 1.9.3):** True/False: The `<caption>` tag must appear after the table rows.

**Question 35 (ID: 1.7.1):** True/False: The `<a>` tag is used to define a division or a section in an HTML document.

**Question 36 (ID: 3.6.4):** Multiple Choice: Which of the following is the correct way to return a value from a function?  
  
- (A) output()  
- (B) return  
- (C) return value;  
- (D) output value;

**Question 37 (ID: 4.8.6):** Multiple Choice: What does the `cloneNode(true)` method do in JavaScript?  
  
- (A) It creates a copy of a node and its children.  
- (B) It creates a copy of a node without its children.  
- (C) It moves a node to another part of the DOM.  
- (D) It deletes a node from the DOM.

**Question 38 (ID: 1.7.7):** Multiple Choice: What attribute would you use to open a hyperlink in a new browser tab?  
 - (A) target="\_self"  
 - (B) target="\_parent"  
 - (C) target="\_blank"  
 - (D) target="\_top"

**Question 39 (ID: 1.1.1):** True/False: An IP address can consist of any four numbers between 1 and 1000.

**Question 40 (ID: 3.9.10):** Multiple Choice: What does the following code output?  
  
javascript  
Copy code  
let game = {  
 firstOpponent: "Serena Williams",  
 firstOpponentScore: 2,  
 secondOpponent: "Garbine Muguruza",  
 secondOpponentScore: 0,  
 get winner() {  
 return this.firstOpponentScore > this.secondOpponentScore ? this.firstOpponent : this.secondOpponent;  
 }  
};  
console.log(game.winner);  
(A) Serena Williams  
(B) Garbine Muguruza  
(C) undefined  
(D) Error

**Question 41 (ID: 1.7.2):** Multiple Choice: What attribute of the `<a>` tag specifies the URL the link goes to?  
 - (A) src  
 - (B) href  
 - (C) rel  
 - (D) type

**Question 42 (ID: 4.7.1):** Multiple Choice: What is the root node in a DOM tree?  
  
- (A) The `<head>` element  
- (B) The `<body>` element  
- (C) The `<html>` element  
- (D) The first `<div>` element

**Question 43 (ID: 4.7.8):** Multiple Choice: What does the `appendChild()` method do in the DOM?  
  
- (A) It replaces an existing child node.  
- (B) It removes a child node.  
- (C) It adds a new child node to an element.  
- (D) It moves a node to the beginning of the parent element.

**Question 44 (ID: 2.3.6):** Multiple Choice: What is the result of using the `float` property with a value of `left` on an image within a paragraph?  
 - (A) The image is removed from the flow of the document  
 - (B) The image floats to the left, and text wraps around it on the right  
 - (C) The image stays fixed at the left edge of its container  
 - (D) The image aligns to the left, but text does not wrap around it

**Question 45 (ID: 1.6.1):** True/False: An unordered list in HTML is used when the order of the items is important.

**Question 46 (ID: 1.6.7):** Multiple Choice: How can you start an ordered list at a number other than one?  
 - (A) Using the "start" attribute with the desired number  
 - (B) Using the "begin" attribute with the desired number  
 - (C) Using the "first" attribute with the desired number  
 - (D) It is not possible to start at a number other than one

**Question 47 (ID: 3.1.4):** Multi-Select: Which of the following are valid JavaScript variable declarations? (Select all that apply)  
 - (A) let score;  
 - (B) int count;  
 - (C) const PI = 3.14;  
 - (D) var name = "Alice";

**Question 48 (ID: 3.2.7):** Multi-Select: Which of the following are valid compound assignment operators in JavaScript? (Select all that apply)  
- (A) `+=`  
- (B) `-=`  
- (C) `\*\*=`  
- (D) `//=`

**Question 49 (ID: 2.6.8):** Multiple Choice: Which value of the `position` property is the default for all elements in a document?  
 - (A) `relative`  
 - (B) `absolute`  
 - (C) `static`  
 - (D) `fixed`

**Question 50 (ID: 4.2.5):** Multiple Choice: What does the `replace()` method do when using regular expressions in JavaScript?  
  
- (A) Finds a string and deletes it.  
- (B) Replaces one or more matches of a pattern with a specified replacement.  
- (C) Tests if a string matches a pattern.  
- (D) Returns an array of matched substrings.

# Answers

**Answer to Question 1:** (A) A user action or occurrence detected by the browser

**Answer to Question 2:** False

**Answer to Question 3:** (A) `x == y`, (B) `x === y`, (C) `x != y`

**Answer to Question 4:** (C) ReferenceError

**Answer to Question 5:** (B) Sets the year for the `Date` object to a 4-digit year.

**Answer to Question 6:** (A) `background-color`

**Answer to Question 7:** (A) `&&`, (B) `||`, (D) `!`

**Answer to Question 8:** (B) To temporarily disable code without deleting it

**Answer to Question 9:** (A) To remove a property from an object

**Answer to Question 10:** (A) window.location.href

**Answer to Question 11:** (B) Starts an email program to send an email to `someone@example.com`

**Answer to Question 12:** (C) 12

**Answer to Question 13:** (B) `getDay()`

**Answer to Question 14:** (C) An attribute node

**Answer to Question 15:** (C) "dime"

**Answer to Question 16:** (B) The object that owns the method

**Answer to Question 17:** (A) color, (B) background-color, (C) border-color, (D) outline-color

**Answer to Question 18:** True

**Answer to Question 19:** (A) `setProperty()`, (C) `removeProperty()`

**Answer to Question 20:** (B) `removeAttribute()`

**Answer to Question 21:** (A) `createElement()`, (B) `createTextNode()`

**Answer to Question 22:** (C) `<div>`

**Answer to Question 23:** (A) Methods can access other properties using `this`, (B) Methods can be added to an object after the object is created, (D) Methods can return values

**Answer to Question 24:** (B) width and height

**Answer to Question 25:** (C) All rules are applied, but properties are combined based on specificity.

**Answer to Question 26:** False

**Answer to Question 27:** (A) top, (B) left, (C) bottom, (D) right

**Answer to Question 28:** (A) `flex-wrap`, (D) `flex-direction`

**Answer to Question 29:** False

**Answer to Question 30:** (C) Function scope

**Answer to Question 31:** (A) 20

**Answer to Question 32:** (C) All applicable styles are combined

**Answer to Question 33:** (A) The image displays as a broken icon.

**Answer to Question 34:** False

**Answer to Question 35:** False

**Answer to Question 36:** (C) return value;

**Answer to Question 37:** (A) It creates a copy of a node and its children.

**Answer to Question 38:** (C) target="\_blank"

**Answer to Question 39:** False

**Answer to Question 40:** (A) Serena Williams

**Answer to Question 41:** (B) href

**Answer to Question 42:** (C) The `<html>` element

**Answer to Question 43:** (C) It adds a new child node to an element.

**Answer to Question 44:** (B) The image floats to the left, and text wraps around it on the right

**Answer to Question 45:** False

**Answer to Question 46:** (A) Using the "start" attribute with the desired number

**Answer to Question 47:** (A) let score;, (C) const PI = 3.14;, (D) var name = "Alice";

**Answer to Question 48:** (A) `+=`, (B) `-=`, (C) `\*\*=`

**Answer to Question 49:** (C) `static`

**Answer to Question 50:** (B) Replaces one or more matches of a pattern with a specified replacement.