

## HTML, CSS and JavaScript/TypeScript quiz

There are 3 parts to this quiz – HTML, CSS and JavaScript/TypeScript.

**Number of questions:** 25

**Time:** 25 – 30 minutes

### Part 1. HTML

1. When a form is filled and submitted, what happens?
  - a) The browser makes an HTTP request for a page and sends the user filled-in form data to the server
  - b) The browser stores the user filled-in data on your system
  - c) The browser makes an HTTP request for a page but does not send the user filled-in form data to the server
  - d) The browser simply refreshes the page already loaded
2. Which tab in Chrome Developer Tools shows details of HTTP communication between the browser and the server?
  - a) Elements
  - b) Console
  - c) Sources
  - d) Network
  - e) Application
3. How do we group a set of checkboxes / radio buttons (so that they are sent under the same query string parameter in URL / request body)?
  - a) We give each one the same name
  - b) We add each one to the same CSS class
  - c) We give each one the same value
  - d) We nest them within a div / fieldset
4. Which attribute of a form is used to specify the URL of resource to be fetched on form submit and to which form data is submitted.
  - a) method
  - b) enctype
  - c) to
  - d) action
5. Which of these attributes must be present on an input element so that its value gets submitted when the form in which it exists gets submitted?
  - a) title
  - b) id
  - c) name
  - d) required

## Part 2. CSS

6. You would like to select all elements with class snippets that lie somewhere within a div with id examples. Which of these selects the desired elements correctly?
  - a) `div #examples.snippets { ... }`
  - b) `div#examples.snippets { ... }`
  - c) `div#examples .snippets { ... }`
  - d) `div > #examples.snippets { ... }`
  
7. Given the following styles for a div that exists within the body, what is the width of the div when the body is 1280px wide?

```
div {  
    width: 80%;  
    max-width: 960px;  
    min-width: 640px;  
}
```

  - a) 640px
  - b) 960px
  - c) 1024px
  - d) 1280px
  
8. You would like paragraphs to be invisible, and space allocated for them NOT be seen on the page. Which of these settings will help achieve this?
  - a) `p { opacity: 0; }`
  - b) `p { opacity: 1; }`
  - c) `p { visibility: hidden; }`
  - d) `p { display: none; }`
  
9. What is the specificity value of the following selector?  
`ul#gallery > li > span.title span.logo`
  - a) (0, 1, 2, 4)
  - b) (0, 1, 2, 3)
  - c) (0, 0, 2, 4)
  - d) (0, 1, 3, 3)
  
10. We would like to have some special styles applied for devices whose width is greater than or equal to 768px. Which of these media queries will help achieve this?
  - a) `@media print and (min-width: 768px) { ... }`
  - b) `@media all and (max-width: 768px) { ... }`
  - c) `@media screen and (width: 768px) { ... }`
  - d) `@media all and (min-width: 768px) { ... }`
  
11. Which of these statements is **TRUE** with respect to an element on which **display: inline-block** is set?
  - a) By default, it will occupy only as much width as the content requires
  - b) Any width/height setting in CSS will be ignored
  - c) No other element can appear horizontally next to it
  - d) Any padding set on it will be ignored

12. What does setting overflow: auto set on the parent of floated elements achieve?
- a) Ensure the floated children of an element fall within an element's box
  - b) Forcibly add scrollbars to the element
  - c) Hide content within an element
  - d) Float elements to either left or right

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### Part 3. JavaScript and TypeScript

13. Which of these tests correctly if a variable obj is actually an object?

- a) `typeof obj === 'object'`
- b) `typeof obj === 'object' || obj instanceof Object`
- c) `typeof obj === 'object' && obj !== null`
- d) `typeof obj === 'object' || typeof obj === null`

14. Given the following snippet of code, what is logged in the console?

```
function f() {  
  function g() {  
    x = 1;  
    console.log(x);  
  }  
  
  g();  
  console.log(x);  
}
```

`f();`

- a) 1  
An error is logged and script execution stops
- b) An error is logged (and script execution continues)  
1
- c) 1  
1
- d) An error is logged and script execution stops
- e) 1  
undefined

15. Which of these is a valid way to declare a function in JavaScript?

- a) `function sum(a, b) { return a + b; }`
- b) `function sum(var a, var b) { return a + b; }`
- c) `var sum = function(a, b) => a + b;`
- d) `var sum = function(var a, var b) { return a + b; }`

16. Given the following snippet of code, what is logged in the console when it is executed by the browser?

```
function f() {  
  var g = function() {  
    console.log('g called');  
  };  
  
  return g;  
}
```

`var h = f();`

- a) The code of the function `g` is logged
  - b) An error is thrown
  - c) `g` called
  - d) Nothing is logged
17. There is an element in the HTML document like so.  
`<input type="text" id="txt-name" />`  
Which of the following are valid ways to get hold of the DOM node for this element?
- a) `var node = document.getElementById( 'txt-name' );`
  - b) `var node = document.querySelector( 'txt-name' );`
  - c) `var node = document.getElementById( '#txt-name' );`
  - d) `var node = document.querySelectorAll( '#txt-name' );`
18. What does the event object's `preventDefault()` method do?
- a) Prevents default action by browser for the event if one exists.
  - b) Prevents event object from being passed to handler
  - c) Prevents bubbling of events
19. What is the output for the code snippet below?
- ```
function foo( x, ...rest ) {  
  console.log( rest );  
}  
foo( 1, 2, 3 );
```
- a) `[1, 2, 3]`
  - b) `1 2 3`
  - c) `[2, 3]`
  - d) `2 3`
20. What is the output of the code snippet below?
- ```
let obj1 = { x: 100, y: 200 };  
let obj2 = { x: 101, y: 201, z: 301, ...obj1, y: 202, z: 302 };  
console.log( obj2 );
```
- a) `{ x: 100, y: 202, z: 302 }`
  - b) `{ x: 101, y: 202, z: 302 }`
  - c) `{ x: 101, y: 201, z: 301 }`
  - d) `{ x: 100, y: 200, z: 302 }`
21. You have exported a function `sum` as default export from a module called `arithmetic`. How will you import the same function into a variable called `add` in another module (which exists in the same folder as `arithmetic` module)?
- a) `import * as add from './arithmetic';`
  - b) `import sum as add from './arithmetic';`
  - c) `import { sum as add } from './arithmetic';`
  - d) `import add from './arithmetic';`

22. What is the data type of variable x?

```
let x;  
x = 1;
```

- a) number
- b) undefined
- c) void
- d) any

23. Which of these defines an array that can hold either only numbers or only strings as items?

- a) number | string[]
- b) (number | string)[]
- c) number[] | string[]
- d) Array<number | string>

24. Which of these when applied to a class property (data member) makes the property immutable?

- a) const
- b) readonly
- c) nowrite
- d) private

25. Which of these statements is FALSE?

- a) An interface can extend another interface
- b) A class can extend another class
- c) An interface can implement another interface
- d) A class can implement an interface