

## HTML, CSS and JavaScript Assessment



# CERTIFICATE OF ACHIEVEMENT

This certificate is proudly presented to  
**Thulisa Tembani**

> For: **HTML, CSS and JavaScript Assessment**

> With a score of: 36/57 (63.16%)

> Date: **February 21, 2025**



CAPACITI

### Report Summary

Name	: <b>Thulisa Tembani</b>
Your Score	: 36 out of 57 (63.16%)
Correct Answers	: <b>36 Questions</b>
Incorrect Answers	: <b>20 Questions</b>
Unanswered	: 1 Question
Required Passing Grade (%)	: 50%
Time Taken	: 32 mins 51 secs
Date	: Feb 21, 2025
Your Result	: <b>Pass</b>
Email	: thulisa.tembani@capaciti.org.za

## Your Answers

### Incorrect

- Q1) Which DOM function returns a node object matching a div with an id value "example\_id"?
- A. document.getElementById("example\_id") (Correct)
  - B. div.getValueOf("example\_id")
  - C. element.getNodeById("example\_id")
  - D. document.getElementById(div, "example\_id") (Your Answer)(Incorrect)

### Incorrect

- Q2) Which tag is used for creating a hyperlink in HTML?
- A. <link>
  - B. <a> (Correct)
  - C. <href> (Your Answer)(Incorrect)
  - D. <hyperlink>

### Correct

- Q3) True or False: 10car is a valid variable name in JavaScript.
- A. False (Your Answer)(Correct)
  - B. True

### Correct

- Q4) Which HTML tag is used for the largest heading?
- A. <h6>
  - B. <head>
  - C. <h1> (Your Answer)(Correct)
  - D. <heading>

Correct

- Q5) What is the relationship between APIs and DOM access in modern web development?
- A. APIs replace the need to use the DOM
  - B. APIs are often used to simplify access to HTML DOM elements (Your Answer)(Correct)
  - C. APIs convert HTML to XML before DOM manipulation
  - D. APIs cannot interact with DOM elements

Correct

- Q6) Which HTML tag is used to define an internal style sheet?
- A. <css>
  - B. <style> (Your Answer)(Correct)
  - C. <script>
  - D. <link>

Correct

- Q7) Which symbol is used to denote an id selector in CSS?
- A. # (Your Answer)(Correct)
  - B. .
  - C. :
  - D. \$

Correct

- Q8) Which of the following is the proper way to create a `for` loop?
- A. for (var i = minVal; i < maxVal; i++) { ... } (Your Answer)(Correct)
  - B. loop (for i = minVal; i < maxVal; i++) { ... }
  - C. for (i < maxVal) { ... }
  - D. for (var i = minVal; i++; i < maxVal) { ... }

Correct

Q9) Which HTML tag is used to include JavaScript code?

- A. <java>
- B. <script> (Your Answer)(Correct)
- C. <js>
- D. <javascript>

Correct

Q10) Which operator is used to assign a value to a variable in JavaScript?

- A. = (Your Answer)(Correct)
- B. ==
- C. :=
- D. ->

Incorrect

Q11) Which method is used to remove the last element from an array in JavaScript?

- A. pop() (Correct)
- B. push()
- C. remove() (Your Answer)(Incorrect)
- D. delete()

Correct

Q12) Where is the correct place to insert a JavaScript link in HTML?

- A. In the <head> section
- B. In the <body> section
- C. At the end of the document (Your Answer)(Correct)
- D. Inside a <div> element

Correct

Q13) Which function is used to output a piece of text to the console in JavaScript?

- A. log() (Your Answer)(Correct)
- B. print()

- C. console()
- D. display()

Correct

Q14) Which CSS property is used to set the background color of an element?

- A. color
- B. background-color (Your Answer)(Correct)
- C. bg-color
- D. background

Incorrect

Q15) What is the correct way to include an external JavaScript file?

- A. <script src='script.js'> (Correct)
- B. <script href='script.js'> (Your Answer)(Incorrect)
- C. <js src='script.js'>
- D. <javascript src='script.js'>

Correct

Q16) Which event occurs when the user clicks on an HTML element?

- A. onchange
- B. onclick (Your Answer)(Correct)
- C. onmouseover
- D. onmouseclick

Correct

Q17) What is the correct way to declare a JavaScript variable?

- A. variable myVar;
- B. var myVar; (Your Answer)(Correct)
- C. new myVar;
- D. myVar = var;

## Incorrect

Q18) Which property is used to change the text color of an element in CSS?

- A. color (Correct)
- B. font-color (Your Answer)(Incorrect)
- C. text-color
- D. font

## Incorrect

Q19) What is the correct format for a JavaScript comment?

- A. //This is a comment (Correct)
- B. <!--This is a comment-->
- C. <!This is a comment>
- D. 'This is a comment (Your Answer)(Incorrect)

## Incorrect

Q20) Which HTML tag is used to define an unordered list?

- A. <ul> (Correct)
- B. <ol>
- C. <li> (Your Answer)(Incorrect)
- D. <list>

## Correct

Q21) What is the file extension for a JavaScript file?

- A. .js (Your Answer)(Correct)
- B. .jav
- C. .script
- D. .j

## Unanswered

Q22) In the following declaration, what is the type of the variable 'pi'?

var pi = "3.14";

- A. char
- B. float
- C. string (Correct)
- D. number

Incorrect

Q23) How do you create a hyperlink to an email address in HTML?

- A. <a href="mailto:email@example.com">Email Me</a> (Correct)
- B. <a link="email@example.com">Email Me</a>
- C. <a href="email@example.com">Email Me</a> (Your Answer)(Incorrect)
- D. <divison>

Incorrect

Q24) What does the preventDefault() method do in JavaScript?

- A. Prevents the page from loading (Your Answer)(Incorrect)
- B. Prevents the default behavior of an event (Correct)
- C. Prevents a function from executing
- D. Prevents the DOM from being modified

Correct

Q25) What does the following statement do : var ndate = new Date();

- A. Returns an error
- B. Assign an empty string with the properties of the dates to ndate
- C. Assigns the current local time to ndate (Your Answer)(Correct)
- D. Assigns the current Greenwich Mean Time to ndate

Correct

Q26) How do you define an array called array1 in JavaScript?

- A. var array1 = [1,2,3] (Your Answer)(Correct)
- B. var array1 = (1,2,3)

- C. `var array1 = new Array((1,2,3))`
- D. `var array1 = new Array[1,2,3]`

Correct

Q27) Which of the following is not a valid HTML tag?

- A. `<div>`
- B. `<span>`
- C. `<section>`
- D. `<paragraph>` (Your Answer)(Correct)

Correct

Q28) Which CSS property is used to align text to the center of an element?

- A. `text-align: middle;`
- B. `align-text: center;`
- C. `text-align: center;` (Your Answer)(Correct)
- D. `align-center: text`

Correct

Q29) What function is used in JavaScript to round a number to the nearest integer?

- A. `roundUp()`
- B. `Math.ceil()`
- C. `Math.round()` (Your Answer)(Correct)
- D. `ceil()`

Correct

Q30) What is the primary purpose of the Document Object Model (DOM) in web development?

- A. To validate HTML syntax
- B. To serve as the programming interface between HTML/XHTML and JS (Your Answer)(Correct)
- C. To store website data in a database
- D. To compress CSS files for faster loading



Correct

Q31) Which of the following is NOT a valid way to include CSS in HTML?

- A. Inline style attribute
- B. External stylesheet
- C. Internal stylesheet
- D. JavaScript file (Your Answer)(Correct)

Incorrect

Q32) Which event occurs when a user clicks on an HTML element?

- A. onhover (Your Answer)(Incorrect)
- B. onmouseclick
- C. onclick (Correct)
- D. onselect

Incorrect

Q33) Which DOM notation would correctly select all paragraph elements inside a div with the class "content"?

- A. document.getElementsByTagName("p")
- B. document.querySelector("div.content")
- C. document.querySelectorAll("div.content p") (Correct)
- D. document.getElementById("content").getElementsByTagName("p") (Your Answer)(Incorrect)

Correct

Q34) In JavaScript, what is a callback function?

- A. A function that calls another function
- B. A function passed as an argument to another function (Your Answer)(Correct)
- C. A function that loops through arrays
- D. A function that returns a boolean value

Correct

Q35) Which statement is used to declare a variable in JavaScript?

- A. let (Your Answer)(Correct)
- B. var (Your Answer)(Correct)
- C. const (Your Answer)(Correct)
- D. int

Incorrect

Q36) Which HTML tag is used to define the structure of an HTML document?

- A. <body>
- B. <head> (Your Answer)(Incorrect)
- C. <html> (Correct)
- D. <title>

Correct

Q37) What is the purpose of the 'alt' attribute in an HTML tag?

- A. Defines the alignment of the image
- B. Specifies the source of the image
- C. Provides alternative text for the image (Your Answer)(Correct)
- D. None of the above

Correct

Q38) Which CSS property is used to set the background color of an element?

- A. color
- B. background-color (Your Answer)(Correct)
- C. bg-color
- D. bgcolor

Incorrect

Q39) What does JavaScript use to store and manipulate data?

- A. Variables and data types (Correct)
- B. Functions and events

- C. Classes and objects (Your Answer)(Incorrect)
- D. Arrays and loops

Incorrect

Q40) Which operator is used to concatenate strings in JavaScript?

- A. += (Correct)
- B. & (Your Answer)(Incorrect)
- C. ++
- D. ~

Correct

Q41) What does the 'src' attribute specify in an HTML tag?

- A. The style of the script
- B. The type of the script
- C. The source file of the script (Your Answer)(Correct)
- D. The size of the script

Correct

Q42) Which JavaScript method is used to find the length of an array?

- A. length()
- B. arrayLength()
- C. size()
- D. array.length (Your Answer)(Correct)

Incorrect

Q43) What does the 'querySelector()' method do in JavaScript?

- A. Returns the first element that matches a specified CSS selector (Correct)
- B. Adds a new CSS class to an element
- C. Updates the content of an HTML element
- D. None of the above (Your Answer)(Incorrect)

Correct

Q44) Which CSS property is used to make text bold

- A. font-weight (Your Answer)(Correct)
- B. text-bold
- C. font-style
- D. font-size

Correct

Q45) What does the 'addEventListener()' method do in JavaScript?

- A. Removes an event listener from an element
- B. Adds an event listener to an element (Your Answer)(Correct)
- C. Executes a function after a specified time interval
- D. Stops event propagation

Correct

Q46) Which CSS property is used to set the font size of an element?

- A. font-size (Your Answer)(Correct)
- B. text-size
- C. size
- D. font

Correct

Q47) In JavaScript, what is a ternary operator?

- A. An operator with three operands (Your Answer)(Correct)
- B. An operator that increments by 3
- C. An operator that multiplies by 3
- D. An operator that divides by 3

Incorrect

Q48) Which HTML tag is used to make a text italic?

- A. <italic> (Your Answer)(Incorrect)
- B. <bold>
- C. <i> (Correct)
- D. <em>

Incorrect

Q49) What does the 'innerHTML' property do in JavaScript?

- A. Gets the content of an HTML element
- B. Sets the content of an HTML element (Correct)
- C. Creates a new HTML element
- D. None of the above (Your Answer)(Incorrect)

Incorrect

Q50) Which CSS property is used to specify the space between cells in a table?

- A. cell-spacing (Correct)
- B. spacing
- C. cell-padding
- D. padding (Your Answer)(Incorrect)

Correct

Q51) what does the typeof operator in JavaScript do?

- A. Returns the type of a variable (Your Answer)(Correct)
- B. Returns the value of a variable
- C. checks if a variable is null
- D. Convert a variable to a string

Correct

Q52) Which method is used to add an element to the end of an array in JS?

- A. pop()
- B. shift()
- C. push() (Your Answer)(Correct)

D. unshift()

Incorrect

Q53) Which of the following is a correct way to define a function in JS?

- A. function myFunc() {} (Your Answer)(Incorrect)
- B. myFunc = function() {}
- C. const myFunc = () => {}
- D. All of the above (Correct)

Correct

Q54) What is the default value of a JS variable that is declared but not initialized?

- A. null
- B. undefined (Your Answer)(Correct)
- C. NaN
- D. 0

Correct

Q55) Which of the following do version control systems help you to keep track of? (Select all that apply)

- A. Who made the changes (Your Answer)(Correct)
- B. When the changes were made (Your Answer)(Correct)
- C. Debugging the errors in the code
- D. What changes were made to the code (Your Answer)(Correct)

Incorrect

Q56) In addition to SQL, which tool can help you access databases?

- A. ORM (Correct)
- B. npm
- C. CI/CD (Your Answer)(Incorrect)
- D. pip

Correct

Q57) Select all of the following which are true in describing a fluid and/or fixed layout.  
A.