

061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/10/6/A

DEMONSTRATE WEB DESIGN SKILLS

NOV/DEC 2023



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL
(TVET CDACC)**

WRITTEN ASSESSMENT

TIME: 3 Hours

INSTRUCTIONS TO CANDIDATE

- 1. The paper consists of **two** sections: **A** and **B***
- 2. Answer **ALL** questions in Section **A** and any **Three** from section **B***
- 3. Marks for each question are indicated in the brackets*
- 4. A separate answer booklet will be provided*
- 5. Do not write on the question paper*

Candidates should answer the questions in English

This paper consists of **THREE** (3) printed pages
Candidates should check the question paper to ascertain that all pages are
printed as indicated and that no questions are missing

SECTION A: (40 Marks)

(Answer ALL the questions in this section)

1. Define the term is HTML. (2 Marks)
2. Highlight SIX advantages of including custom attributes in HTML documents. (6 Marks)
3. Identify FOUR elements when designing the layout of a web pages. (4 Marks)
4. Explain the term stylesheet as used in web page design. (2 Marks)
5. Differentiate between
 and <h1> (4 Marks)
6. Applying styles involves understanding well the style concepts. Identify FOUR style concepts (4 Marks)
7. JQuery is a popular and widely used JavaScript library that simplifies the process of working with HTML, CSS, and JavaScript. Highlight SIX features of jQuery. (6 Marks)
8. In JavaScript, you can access HTML element attributes using the Document Object Model (DOM).
The DOM provides a structured representation of the HTML document, allowing you to interact with and manipulate its elements and attributes. State FIVE ways on how you can access HTML element attributes using JavaScript. (5 Marks)
9. In the context of your role as a web designer, list THREE examples of JavaScript data types. (3 Marks)
10. Outline TWO differences between href and src. (4 Marks)

SECTION B: (60 Marks)

(Answer any THREE questions in this section)

11.

- a) Using internal styles for a specific section of a web page can be advantageous in scenarios where you want to apply unique and specific styles to a particular section without affecting the rest of the website's design. Explain FIVE merits of using internal styles. (10 Marks)
- b) Discuss FIVE HTML attributes that are used to enhance the functionality and presentation of HTML elements. (10 Marks)

12.

- a) Joseph a student at Kitale National Polytechnic was tasked to develop a web page using JavaScript. Discuss FIVE reasons why JavaScript is crucial in web development. (10 Marks)
- b) Discuss the procedure involved in creating an external CSS file. (10 Marks)

13.

- a) JavaScript syntax refers to the rules and structure that must be followed when writing a JavaScript code. Proper syntax is crucial for the code to be valid and executed correctly by the browser. Illustrate FIVE key aspects of JavaScript syntax. (10 Marks)
- b) The structure of a JavaScript function consists of several components that define how the function works and what it does. Illustrate the general structure of a JavaScript function. (10 Marks)

14.

- a) Ensuring accessibility when using JavaScript to modify HTML elements is crucial to provide an inclusive user experience for all visitors. Illustrate FIVE best practices to follow. (10 Marks)
- b) Discuss FIVE merits of HTML (Hypertext Markup Language) in formatting a web page's structure. (10 Marks)

THIS IS THE LAST PAGE.