

061306T4CPM
COMPUTER PROGRAMMING LEVEL 6
IT/OS/CP/CR/08/6/A
DEVELOP CLIENT-SIDE WEB APPLICATIONS
NOV /DEC 2023



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

WRITTEN ASSESSMENT

TIME : 3 Hours

INSTRUCTIONS TO CANDIDATES

- 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 4 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 questions in this section)

1. Define the term HTML (2 Marks)
2. Explain any TWO Javascript data types (4 Marks)
3. List any THREE attributes that can be added to the <a> tag (3 Marks)
4. Explain the purpose of lang attribute in HTML (2 Marks)
5. Distinguish between each of the following as used in Hypertext Markup Language (4 Marks)
 - a. <title> and <script>
 - b. <link> and <meta>
6. Distinguish between radio buttons and check boxes as used in HTML (4 Marks)
7. In the following code snippet, in what order will the margins be added (4 Marks)

```
p {  
    margin: 25px 50px 75px 100px;  
}
```
8. Using an example, discuss any THREE ways CSS can be added to HTML (6 Marks)
9. Using an example, demonstrate how one would select all <p> element tags in JQuery (2 Marks)
10. Discuss any THREE JQuery methods for DOM manipulation (6 Marks)
11. Using an example discuss how you would change the background color of an HTML paragraph (3 Marks)

SECTION B: (60 Marks)*(Answer any THREE Questions in this section)*

12.

- a) Write HTML code that will display the following table when run on the browser

(10 Marks)

Subjects			Date			
<table border="1"> <tr> <td>Database</td> <td>Networking</td> <td>Operating System</td> </tr> </table>			Database	Networking	Operating System	19/10/2023
Database	Networking	Operating System				
Communication Skills			17/10/2023			

- b) Write a Javascript program that uses an event to display the statement “I am a Kenyan” on an alert box when the Kenyan image is loaded on the screen. Use a function

(10 Marks)

13.

- a) Write a Javascript Program that is embedded on HTML that prints the following pattern

(10 Marks)

```

*
**
***
****
*****

```

- b) Discuss FOUR attributes that can be used with the tag in HTML

(8 Marks)

- c) Outline any advantage of using a dynamic web page

(2 Marks)

14.

- a) Using relevant examples discuss FIVE JQuery events

(10 Marks)

- b) Explain FIVE advantages of using libraries such as JQuery in developing web applications

(10 Marks)

15.

- a) Write HTML code that would display the following items as they appear when run on a browser (10 Marks)

A. Computer Programming

3. Structured Programming

2. **Web** Programming

- PHP
- HTML

1. Functional *Programming*

B. Future of Programming

Artificial Intelligence

This will involve a lot of machine learning

Web 3.0

This will also impact how we code on the web

- b) Write a Javascript program embedded in HTML that would use a function to compute the area of a triangle whose base length is 300 and height is 100. The program should display the results on a browser. (10 Marks)

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