



## **MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY**

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### **UNIVERSITY EXAMINATIONS 2023/2024**

**FIRST YEAR, SECOND SEMESTER EXAMINATION FOR DIPLOMA IN INFORMATION TECHNOLOGY AND CERTIFICATE IN INFORMATION TECHNOLOGY**

**CIT 1211/CIT 2211: CLIENT-SIDE APPLICATION DEVELOPMENT/INTERNET APPLICATION DEVELOPMENT I**

**DATE: DECEMBER 2024**

**TIME: 1½ HOURS**

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**INSTRUCTIONS: Answer Question ONE and any other TWO questions.**

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**QUESTION ONE (30 MARKS)**

- a) Define the term client in web development (2 Marks)
- b) You are an experienced web developer. Identify any reasons why you would want to use CSS in your websites. (4 Marks)
- c) Describe three categories of CSS selectors (6 Marks)
- d) As a web developer, briefly explain what purpose Javascript serves in websites (2 Marks)
- e) Write a HTML file that contains Javascript function that is called when a button is clicked (4 Marks)
- f) The CSS background properties are used to define background effects for elements. Identify any two background properties. (2 Marks)
- g) Using examples, demonstrate two ways of writing comments in CSS (4 Marks)
- h) Javascript in most websites exists as external files. What advantages does this have over having scripts in the same file as html? (2 Marks)



**MUST is ISO 9001:2015 and**



**ISO/IEC 27001:2013 CERTIFIED**

i) Using appropriate examples, demonstrate comments in Javascript (4 Marks)

## QUESTION TWO (15 MARKS)

a) Identify any six examples of Javascript events (6 Marks)

b) Javascript can access the DOM of a HTML page. Assuming we have a p tag in our HTML page that has the id 'hero', write a Javascript program that changes its text to "Hero's Page" (5 Marks)

c) In Javascript, we can access elements in HTML by specifying either id or class name. write Javascript statement for:

- Finding an element with the id "paperID" (2 Marks)
- Finding an element belonging to the class "paperClass" (2 Marks)

## QUESTION THREE (15 MARKS)

a) The IT Department has contracted you to develop a website that registers students for a unit. Write a simple website that captures the student's name and registration number. Write a Javascript function that ensures that these values are not blank (8 Marks)

b) Write a HTML file that contains Javascript function that is called when a button is clicked (6 Marks)

c) What does the acronym CSS stand for? (1 Mark)

## QUESTION FOUR (15 MARKS)

a) You have been contracted to develop a website to capture student details. Write a simple form that captures the student's name and age. Write a Javascript function that checks that the name is not blank (6 Marks)

b) Write a CSS script that applies a red background color, a white font color, and font size of 14 to all <p> elements in a html file (5 Marks)

c) As a Javascript programmer, write a Javascript function that returns the sum of three numbers (4 Marks)

