(*University of Choice*)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2022/2023 ACADEMIC YEAR

FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE

IN

COMPUTER SCIENCE

COURSE CODE: BCS 223

COURSE TITLE: WEB PROGRAMMING

DATE: 17/04/2023   **TIME:** 8:00-10:00 am

INSTRUCTIONS TO CANDIDATES

Answer **Question ONE (1)** and any other **TWO**

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

SECTION A: **COMPULSORY QUESTION**   *{30 MARKS}*

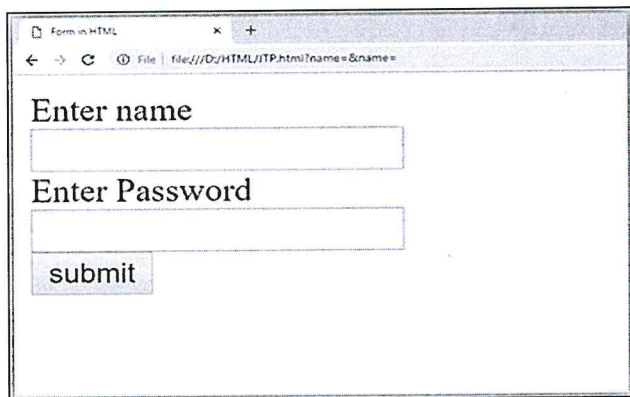## QUESTION 1

a) Explain the meaning of mark-up language and hence give any two examples. **(2 Marks)**

b) Discuss the different parts of a URL. Aid your answer with an example. **(3 Marks)**

c) Outline three acceptable places where you can put your JavaScript code, during creation of a webpage. **(3 Marks)**

d) Explain the differences and similarities between the following internet resource addresses.

(4 Marks)

http://www.mmust.co.ke and info@mmust.co.ke

e) Describe three known ways in which CSS be integrated as a web page. **(6 Marks)**

f) Identify the three parts or fields of a

   i. HTTP Request. **(3 Marks)**

   ii. HTTP Response **(3 Marks)**

g) Discuss the following HTTP methods; **POST, GET & DELETE**. **(6 Marks)**

SECTION B: *ANSWER ANY TWO QUESTIONS*   *{20 MARKS EACH}.*

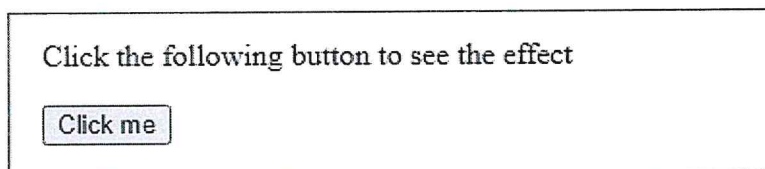## QUESTION 2

a) Use a meaningful example to demonstrate the following: -

     i.   Inline CSS.   **(2 Marks)**

     ii.   Internal CSS.   **(4 Marks)**

     iii.   External CSS.   **(4 Marks)**

b) Describe a HTML form, with bias to its functions.   **(3 Marks)**

c) Write code to generate the following with reference to HTML forms.   **(7 Marks)**

QUESTION 3

a) Describe the JavaScript's *innerHTML* property with respect to its use.   **(4 Marks)**

b) Write a JavaScript code that displays the message below and gives an alert if a user clicks a button (click me). Feel free to put any message on the alert.   **(7 Marks)**

c) In most websites the languages, HTML, CSS & JavaScript are normally used. Explain each emphasising on the purpose or use in a webpage.   **(9 Marks)**

QUESTION 4
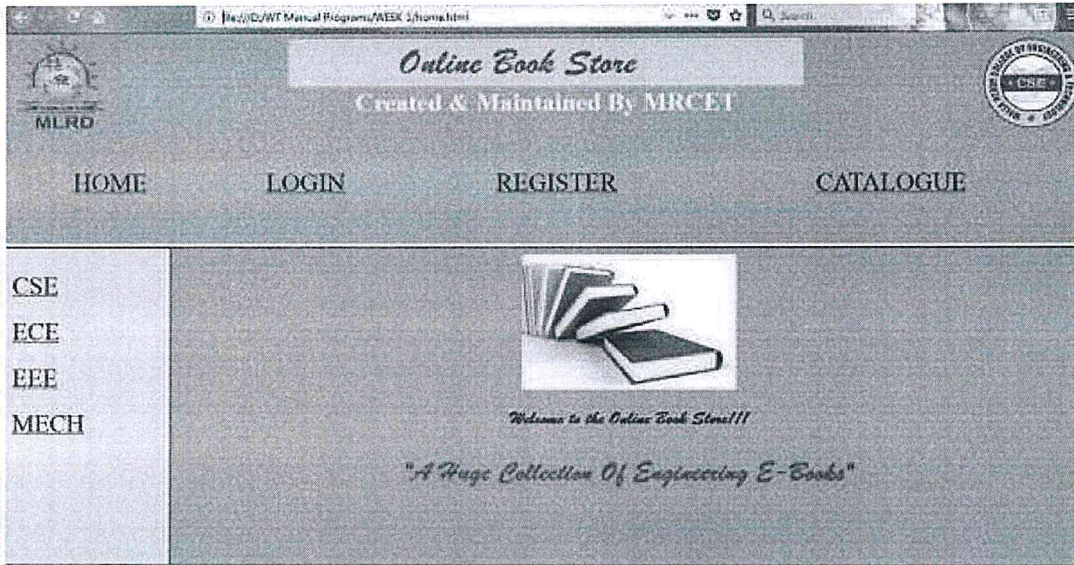
a) Explain the following terms, give a relevant example in each case: **(6 Marks)**

    i.   Web server

    ii.   Web client

    iii. Protocol

b) Give the syntax of the CSS rule: and use an example to explain one.   **(4 Marks)**

c) Write a JavaScript code to create the following dynamic registration form. Use the "**innerHTML**" property.   **(10 Marks)**

QUESTION 5

a) Design the webpage that looks like the one below, using HTML and CSS only.   **(20 Marks)**

End of Exam