KISII *FONS SCIENTIAE* UNIVERSITY
UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING
SECOND SEMESTER, 2023/2024
(AUGUST-DECEMBER, 2023)

BIT 202/SOEN 202: WEB PROGRAMMING 1

STREAM: Y2 S1   **TIME: 2 HOURS**

DAY: MONDAY, 12:00–02:00 PM   **DATE: 20/11/2023**

INSTRUCTIONS
1. *Do not write anything on this question paper.*
2. *Answer Question ONE [Compulsory] and any other TWO Questions.*

Question One
   a. Use an example to explain the different types of lists in HTML (5 marks)
   b. Explain how to indicate the character set being used by a document in HTML   (5 marks)
   c. Show Write the code for adding new elements dynamically in JavaScript
                                                                                        (10 marks)
   a. Create an iframe with a URL address that goes to https://www.whome.com   (5 marks)
   b. Show how JavaScript can change styles of an html document
                                                                                        (5 marks)

Question Two
   a) Write code that demonstrates how to create an object with a User-Defined Function using this key word   (5 marks)
   b) What is the syntax for creating a number object in JavaScript   (5 marks)
   c) Explain how to handle events in HTML?   (5 marks)
   d) In how many ways can we specify the CSS styles for the HTML element?
                                                                                        (5 marks)

Question Three
   a. Describe ant three ways you can display HTML elements   (10 marks)
   b. Write JavaScript code to show examples of a global variable and a local variable
                                                                                        (5 marks)
   c. Write a while loop in JavaScript which counts numbers between 1 and n
                                                                                        (5 marks)

Question Four
    a. Use an example to show the syntax for adding a property to an object in JavaScript

        (10 marks)
    b. Thoroughly explain the purpose of writing an XML schema?   (5 marks)
    c. Use some code to show how the CSS box-sizing property allows us to include the padding and border in an element's total width and height.

        (5 marks)

Question Five
    a. Use an example to show how the background color of a page is set using CSS   (5 marks)
    b. Describe the Document Object Model, DOM of an HTML document.

        (10 marks)
    c. Show the correct JavaScript syntax that changes content of a HTML element   (5 marks)