KIRIRI WOMEN'S UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2024/2025 ACADEMIC YEAR
SECOND YEAR, SECOND SEMESTER EXAMINATION
FOR THE DIPLOMA IN BUSINESS & INFORMATION TECHNOLOGY
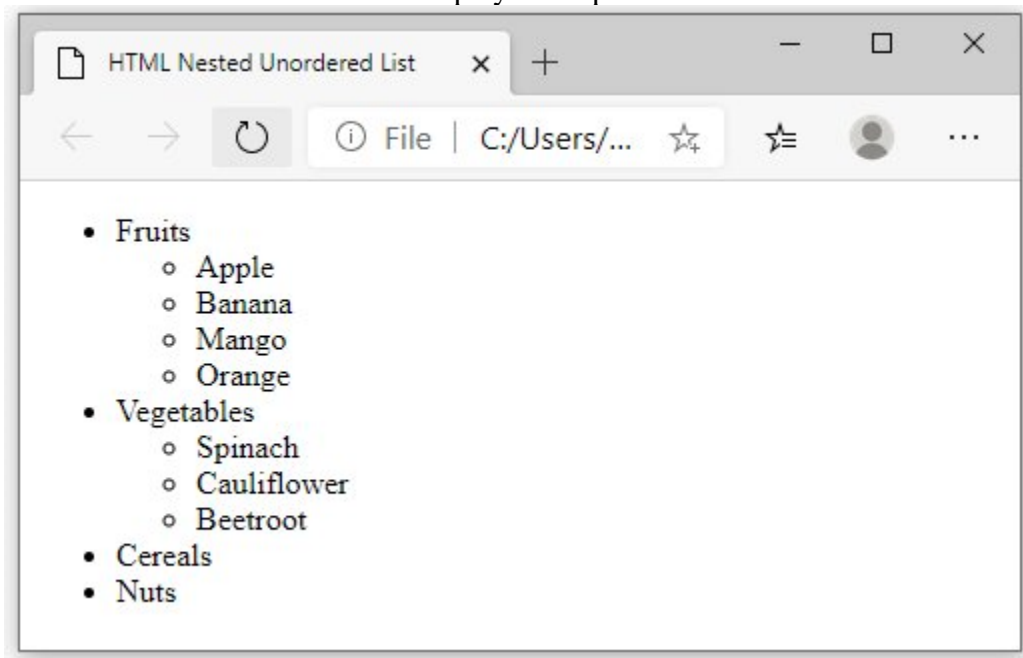## DIT 1012 – INTERNET BASED PROGRAMMING

Date: 15TH April 2024
Time: 8:30AM – 10:30AM

INSTRUCTIONS TO CANDIDATES
ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS
QUESTION ONE (30 MARKS)

a)   Distinguish between the following terms used in internet-based programming

    i)   HTML and CSS   (2 Marks)
    ii)   Margin and Padding in CSS   (2 Marks)
    iii)   Front-end and Back-end web development   (2 Marks)
    iv)   Web browser and Search engine   (2 Marks)

b)   Explain any two applicable uses of Application programming interface (API) during web development   (4 Marks)

c)   Describe two applicable areas of HTML forms   (4 Marks)

d)   What is a responsive web design and its advantages   (4 Marks)

e)   Write HTML code that is used to display the captured HTML list shown below.   (6 Marks)

QUESTION TWO (20 MARKS)

a)   Describe importance of including HTML and CSS comments during web/system development   (2 Marks)

b)   Discuss various ways that can be done using web development to improve your webpage in SEO ranking   (8 Marks)

c)   Write HTML code that generates the following table used by KIRIRI to enter CAT marks for students

(10 Marks)

KIRIRI STUDENTS CATS					
REGNO.	STUD_NAME	ASSIGNMENT I	CAT 1	CAT 2	TOTAL/30
DIT-001-23	Mary	7	7	5	19
DBT-005-23	Nancy	8	5	6	
DIT-006-23	Mercy	6		9	20

QUESTION THREE (20 MARKS)

a)   Explain the use of the following in HTML   tags

   i)   \<sup\>   (2 Marks)
   ii)   \<id ="one"\>   (2 Marks)
   iii)   \<class="one"\>   (2 Marks)
   iv)   \<hr\>   (2 Marks)
b)   Highlight any two languages used for web server-side programming   (2 Marks)
c)   Write HTML and CSS codes that was used to generated the below capture menu navigation(10 Marks)

QUESTION FOUR (20 MARKS)

a)   Describe five advantages of web based applications over desktop based applications   (5 Marks)
b)   Describe the major roles and information that need to be contained in the following webpage sections

   i)   Aside   (2 Marks)
   ii)   Footer   (1 Mark)
   iii)   Article   (2 Marks)

c)   Using HTML codes, generate the below captured html form   (10 Marks)

Name: [_____]

Sex: ○ Male ○ Female

Country: [Select an option ▾]

Message:

[_____]

☐ Subscribe?

[Submit]

QUESTION FIVE (20 MARKS)

a) Describe the role of the following HTML tags.

    i)   <BODY bgcolor = "#ffff00" text = "cyan"> </BODY>   (2 Marks)

    ii)   <IMG SRC = kwust_logo.jpg>   (2 Marks)

    iii)   <A HREF ="Courses.html"> View   (2 Marks)

b) Justify why HTML is not a programming language   (4 Marks)

c) The internet and the web have revolutionized many aspects of human life both positively and negatively. Discuss any five negative aspects of these technologies.   (10 Marks)