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KIRIRI WOMEN'S UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2023/2024 ACADEMIC YEAR
FIRST YEAR, FOURTH SEMESTER EXAMINATION
FOR THE DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
DIT 1012 – INTERNET BASED PROGRAMMING

Date: 11TH December, 2023
Time: 11:30AM- 1:30PM

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)   Article, Aside and Footer HTML tags   (2 Marks)
   iii)   Margin and Padding in CSS   (2 Marks)
   iv)   HTTP and HTTPS   (2 Marks)
   v)   Front-end and Back-end web programming   (2 Marks)
   vi)   Web browser and Search engine   (2 Marks)

b)   Besides JPEG and bitmap images, list any other two graphic formats   (2 Marks)
c)   Describe two applicable uses of HTML forms   (2 Marks)
d)   Describe any three features of a good HTML/CSS text editor   (3 Marks)
e)   Enumerate any four uses of server-side programming   (4 Marks)
f)   Explain any two applicable uses of Application programming interface (API)   (4 Marks)
g)   What is a responsive web design and its advantages   (3 Marks)

QUESTION TWO (20 MARKS)
a)   Describe importance of including HTML and CSS comments during web 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

    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) Generate HTML code that will render the web page list shown below   (10 Marks)

QUESTION FOUR (20 MARKS)

a) Describe three advantages of web based applications over desktop based applications   (3 Marks)
b) Planning for website development is an essential step in web development. Describe seven guiding principles of website planning.   (7 Marks)
c) Generate HTML code to render the output below   (10 Marks)

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)