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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 BUSINESS INFORMATION TECHNOLOGY  
DIT 1012 – INTERNET BASED PROGRAMMING**

Date: 14<sup>TH</sup> AUGUST 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) WWW and URL (2 Marks)
  - ii) HTML element and Attributes (2 Marks)
  - iii) Server-side scripting and client-side scripting (2 Marks)
  - iv) Intranet and extranet (2 Marks)
  - v) Absolute & Relative links (2 Marks)
  - vi) Search engine optimization and content management system (2 Marks)
- b) Describe two demerits of using frames in website development (2 Marks)
- c) Besides JPEG and bitmap images, list any other two graphic formats (2 Marks)
- d) Describe any three ways of using Cascading Style Sheets on an HTML page (3 Marks)
- e) Enumerate any four uses of server-side programming (4 Marks)
- f) Explain any two parts/components of a CSS Style giving examples (4 Marks)
- g) Describe three types of dialogue boxes used to respond to a user in JavaScript (3 Marks)

**QUESTION TWO (20 MARKS)**

- a) Outline two rules you should observe when creating JavaScript variables (2 Marks)
- b) Discuss any four types of web hosting services (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) 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 </a>` (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)

### QUESTION FOUR (20 MARKS)

- a) Explain the use of the following in HTML
- i) `<sup>` (2 Marks)
  - ii) `<marquee>` (2 Marks)
  - iii) `<cite>` (2 Marks)
  - iv) `<hr>` (2 Marks)
- b) Highlight any two languages used for client-side programming (2 Marks)
- c) Generate HTML code that will render the web page list shown below (10 Marks)

#### CHATGPT

ChatGPT is an artificial intelligence Chabot developed by OpenAI based on the company's *Generative Pre-trained Transformer (GPT)*

#### **Chat GPT Examples:**

- ChatGPT as a Coding Partner.
- Detect security vulnerabilities.
- ChatGPT as an App Developer.

#### **Other Examples**

- a. ChatGPT as a Senior Twitter Data Engineer.
- b. Write software using ChatGPT with zero experience in coding.

#### **Applications:**

Chat-GPT has been used for:

- 3. Customer service,
- 4. Marketing and sales,
- 5. Natural language processing (NLP), and

#### **Other business Applications:**

- i. Research,
- ii. Data analysis and
- iii. Analytics.

**QUESTION FIVE (20 MARKS)**

- a) Give three common examples of CMS (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)

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