



Kasarani Campus
Off Thika Road
Tel. 2042692 / 3
P. O. Box 49274, 00100
NAIROBI
Westlands Campus
Pamstech House
Woodvale Grove
Tel. 4442212
Fax: 4444175

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 (2 Marks)
 - 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)

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 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)

Feedback Form

Please fill out this form to help us improve our site.

Name:

Comments:

Email Address:

Things you liked:

Site design Links Ease of use Images Source code

QUESTION FIVE (20 MARKS)

- a) Describe the role of the following HTML tags.
- i) `<BODY bgcolor = "#ffff00" text = "cyan"> </BODY>` (2 Marks)
 - ii) `` (2 Marks)
 - iii) ` 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)