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**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
FIRST YEAR SECOND SEMESTER**

**SPECIAL/SUPPLEMENTARY EXAMINATION
FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS**

COURSE CODE: GEO 121

**COURSE TITLE: INTRODUCTION TO CARTOGRAPHY,
PHOTOGRAMMETRY AND MAP ANALYSIS**

DATE: 11TH AUGUST 2023 TIME: 11:00 AM - 1:00 PM

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

- 1. ANSWER QUESTION ONE (Q1) COMPULSORY**
- 2. ANSWER ANY OTHER TWO (2) QUESTIONS**
- 3. USE ILLUSTRATION WHERE APPROPRIATE**

THIS PAPER CONSISTS OF 2 PRINTED PAGES. PLEASE TURN OVER.

Question 1

You are provided with the map of Karatina. Describe the following

- a) The relief of the area covered by the map
- b) The settlement of the area covered by the map
- c) The drainage of the area covered by the map
- d) The marginal information of the area covered by the map

(8Marks)

(8Marks).

(8 Marks)

(6 Marks)

Question 2

Examine the role of GIS in geographic research

(20 Marks)

Question 3

- a) Describe the various characteristics of contours
- b) Discuss the various ways of representing data on maps

(10 Marks)

(10 Marks)

Question 4

The table below shows the size of land owned by farmers under sugarcane farming in Bungoma County

| Class(acreages) | Frequency |
|-----------------|-----------|
| 21-30 | 5 |
| 31-40 | 9 |
| 41-50 | 4 |
| 51-60 | 6 |
| 61-70 | 5 |
| 71-80 | 8 |

Study the table carefully and compute the following

- a) Mean
- b) Mode
- c) Median
- d) Standard Deviation
- e) Interquartile Range

(3 Marks)

(4 Marks)

(4 Marks)

(4Marks)

(5Marks)

Question 5

- a. Discuss the growth and development of the field of cartography
- b. Describe the various types of maps used in geography

(10 Marks)

(10 Marks)