UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
FIRST YEAR SECOND SEMESTER

MAIN EXAMINATION – REGULAR
FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS

COURSE CODE: GEO 121

COURSE TITLE: INTRODUCTION TO CARTOGRAPHY,
PHOTOGRAMMETRY AND MAP ANALYSIS

DATE: 25TH APRIL 2023   **TIME: 9:00AM- 11:00 AM**
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 Homabay. Describe the following
a) The relief of the area covered by the map   (8Marks)
b) The settlement of the area covered by the map   (8Marks).
c) The drainage of the area covered by the map   (8 Marks)
d) The marginal information of the area covered by the map   (6 Marks)

Question 2

Describe the following concepts
  a. Remote Sensing   (3 Marks)
  b. GIS   (5 Marks)
  c. Cartography   (3 Marks)
  d. Spatial Data   (4 Marks)
  e. Attribute   (2 Marks)
  f. Symbology   (3 Marks)

Question 3

a) Describe the various ways of representing relief on a map   (10 Marks)
b) Distinguish between the term passive and active sensors   (10 Marks)

Question 4

The table below shows the size of land in acres owned by farmers under maize crop in Bungoma County

Class(Acreage)	Frequency
11 - 20	10
21-30	7
31-40	8
41-50	24
51-60	5
61-70	7

Study the table carefully and compute the following
  a) Mean   (3 Marks)
  b) Mode   (4 Marks)
  c) Median   (4 Marks)
  d) Standard deviation   (4Marks)
  e) Interquartile Range   (5Marks)

Question 5

Discuss the various ways in in which GIS and Remote Sensing can be used to improve the Kenyan Economy   (20 Marks)