



(KNOWLEDGE FOR DEVELOPMENT)
KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS
2021/2022 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: JULY 29, 2022

TIME: 2 – 4PM

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

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

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OVER.

Question 1

You are provided by the map of Busia

- a. Describe the relief of the area covered by the map (8Marks)
- b. Describe the settlement of the area covered by the map (8Marks).
- c. Describe the drainage of the area covered by the map (8 Marks)
- d. State the marginal information of the area covered by the map (6 Marks)

Question 2

Describe the characteristics of contours

(8 Marks)

Discuss the various fundamental operations carried out by GIS

(12 Marks)

Question 3

Describe the various ways of representing data on a map

(20 Marks)

Distinguish between the term Vector and Raster as used in GIS

(8 Marks)

Question 4

The table below shows the size of land owned by farmers under maize in Bungoma county

Class	Frequency
11 - 20	12
21-30	17
31-40	10
41-50	20
51-60	5
61-70	7

- a. Compute the Mean (3 Marks)
- b. Compute the Mode (4 Marks)
- c. Compute the median (4 Marks)
- d. Compute the standard deviation (4Marks)
- e. Compute the Interquartile Range (5Marks)

Question 5

- a. Discuss the various ways in which remote sensing and GIS can be used in conservation of Kenyan Natural resources (20 Marks)