

360



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)  
(MAIN EXAM)  
UNIVERSITY EXAMINATIONS  
2023/2024 ACADEMIC YEAR  
SECOND YEAR FIRST SEMESTER EXAMINATIONS**

**FOR THE DEGREE  
OF**

**BACHELOR OF EDUCATION (ARTS)**

**COURSE CODE: GEO 201**

**COURSE TITLE: INTRODUCTION TO CARTOGRAPHY AND MAPWORK.**

**DATE: Wednesday 20<sup>th</sup> December, 2023**

**TIME: 3:00-5:00pm**

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**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.**

**USE ILLUSTRATIONS TO ADD VALUE.**

**TIME: 2 HOURS**

**MMUST OBSERVES ZERO TOLERANCE TO EXAMINATION  
CHEATING**

### QUESTION ONE.

Write concise notes on the following:

- Contributions of Arabs to Cartography. (6 marks)
- i. Geographical Information System. (6 marks)
  - ii. The importance of photographs. (6 marks)
  - iii. Marginal information on Survey ordinance maps. (6 marks)
  - iv. The characteristics of sketch maps. (6 marks)

### QUESTION TWO.

- a. The following table shows the number of people in terms of age who attended a agricultural show in market X.

Class	12-14	15-17	18-20	21-23	24-26	27-29	30-32	33-35
frequency	1	2	5	8	8	4	4	2

Using the above data, calculate,

- i. Mean age. (4 marks)
- ii. Median age. (4 marks)
- iii. Modal age. (4 marks)
- iv. Variance. (5 marks)
- v. Standard Deviation. (3 mark)

### QUESTION THREE.

- a. Identify SIX advantages of using Remote Sensing. (12 marks).
- b. Explain any FOUR limitations of using photographs as a tool for geographical studies. (8 marks)

**QUESTION FOUR.**

- a. Explain FOUR types of isoline maps. (4 marks)
- b. Covert the following scales:
  - i. Representative fraction to statement.  
1/250,000  
1/ 400,000  
1/300,000.
  - ii. Statement to linear scale  
6 cm represent 300 kilometers  
5 cm represent 1000 kilometers  
4 cm represent 2400 kilometers (6 marks)
- c. Explain FIVE ways of representing drainage on the topographical map. (10marks).

**QUESTION FIVE**

- a. The table below shows Kenya’s crop production in 000s tones from 2020 - 2023. Use it to answer the question that follows.

	2020	2021	2022	2023
Tea	30,000	42,000	50,000	60,000
Coffee	20,000	33,000	35,000	40,000
Maize	16,000	20,000	25,000	30,000
Wheat	12,000	13,000	20,000	20,000

- Using a scale of 1 cm represent 10,000 metric tons, draw a comparative bar graph for the above data. (14 marks)
- b. Identify THREE types of photographs. (3 marks)
  - c. State the difference between a map and a photograph. (3 marks)

