



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2023/2024 ACADEMIC YEAR  
SECOND YEAR SECOND SEMESTER**

**SCHOOL OF NATURAL RESOURCE,  
ENVIRONMENTAL STUDIES AND  
AGRICULTURE**

**BACHELOR OF URBAN AND REGIONAL  
PLANNING**

**COURSE CODE: GEO 2217-1  
COURSE TITLE: INTRODUCTION TO LAND  
SURVEYING**

**DATE: 16/4/ 2024**

**TIME: 1430-1630 HRS**

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## **INSTRUCTIONS TO CANDIDATES**

Answer **ALL** questions in section **A** and any other **THREE** in section **B**.

*This paper consists of 2 printed pages. Please turn over*

**SECTION A - 20 MARKS**

- Q1. Describe six methods used in linear measurements in land surveying **(6 marks)**
- Q2 Define the following terms as used in land surveying **(2 marks)**
- Q3. Discuss the two major categories of surveying **(4 marks)**
- Q4. You are a surveyor and a client has contracted you to survey 1000 acres of land in Narok County. Discuss the steps you will follow to carry out the assignment successfully **(3 marks)**
- Q5. Define and list two classes of control surveying **(2 marks)**
- Q6. Briefly describe three coordinate systems used in Kenya **(3 marks)**

**SECTION B - 30 MARKS**

- Q7. Discuss any five types of theodolites and their uses **(10 marks)**
- Q8. Discuss any ten principles of plane table surveying **(10 marks)**
- Q9. Describe any ten uses of tacheometry survey **(10 marks)**
- Q10. Traverse surveys can be categorized into several different types based on various criteria. Discuss five main categories of traverse surveys **(10 marks)**

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