



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2017/2018 ACADEMIC YEAR  
SECOND YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM & NATURAL RESOURCES  
MANAGEMENT  
BACHELOR OF ARTS IN GEOGRAPHY**

**COURSE CODE: EES 2229**

**COURSE TITLE: CADASTRAL SURVEYING**

**DATE:**

**TIME:**

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## **INSTRUCTIONS TO CANDIDATES**

Answer **ALL** questions in Section A, and any **THREE** questions in Section B  
Use illustrations where appropriate. A simple calculator required during this  
examination. Borrowing of any materials from other candidates is strictly not  
allowed.

*This paper consists of 3 printed pages. Please turn over*

**SECTION A (COMPULSORY)**

**Question One**

(a) What is a cadastre? **(3 marks)**

(b) Explain why a surveyor should charge a client more fees for Covenant plans and less for Easement plans. **(4 marks)**

(c) Describe the basic legal principles involved in land registration systems for deeds or titles. **(4 marks)**

(d) Explain the importance of the following in cadastral surveying;

- i. Bearing tree
- ii. Meander line
- iii. Original survey
- iv. Monument
- v. Plat
- vi. Re-survey
- vii. Theodolite
- viii. Witness corner

**(8 marks)**

(e) A surveyor conducted a closed traverse around an obstacle. Observations were as recorded in the table below.

Line	Length in( m)	Bearing
AB	---	33° 45'
BC	300	86° 23'
CD	---	169° 23'
DE	450	243° 54'
EA	268	317° 30'

- i. Work out the two missing length AB
- ii. Work out the two missing length CD

**(6 marks)**

**[Total 25 marks]**

**SECTION B (ANSWER ONLY THREE QUESTIONS)**

Q2

Describe the professional qualifications and other expected ethical characteristics of a typical cadastral surveyor. **(15 marks)**

Q3

Compare and contrast the following forms of land tenure;

- i.** Customary **(3 marks)**
- ii.** Anglo- America **(3 marks)**
- iii.** Islamic **(3 marks)**
- iv.** Communist **(3 marks)**
- v.** Roman- French- German **(3 marks)**

Q4

(a) Describe two types of natural boundaries **(5 marks)**

(b) County boundaries are usually assumed to be stationary. Explain situations in which artificial and natural boundaries could move. **(10 marks)**

Q5

Discuss the activities of surveyors / geomaticians that may change in future due to technological development and other changes in the professional environment. **[15 marks]**

Q6

Describe the seven major professional challenges that cadastral surveyors in the field. **[15 marks]**

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