2312/305 CADASTRAL SURVEYING AND LAND LAW June/July 2021 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN LAND SURVEYING

CADASTRAL SURVEYING AND LAND LAW

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:

Answer booklet:

Scientific calculator.

This paper consists of EIGHT questions in TWO sections; A and B.

Answer FIVE questions; choosing THREE questions from section A and TWO questions from section B.

All questions carry equal marks.

Maximum marks for each part of a question are as indicated.

Candidates should answer the questions in English.

This paper consists of 6 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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SECTION A: CADASTRAL SURVEYING

Answer THREE questions from this section.

1. (a) State three applications of cadastral surveying.

(3 marks)

- (b) State:
 - (i) two ways in which fixed boundaries are defined om a cadastral plan.
 - (ii) two ways of defining general boundaries on the ground.

(4 marks)

- (e) Figure 1, shows a part development plan for three plots. Using the information on the plan, the coordinates of the corner point P and the traverse point, Tr in table 1, compute;
 - (i) the theoretical data for beacons Q, R and S.
 - (ii) the placing data for beacons Q and R from the traverse point Tr.

(13 marks)

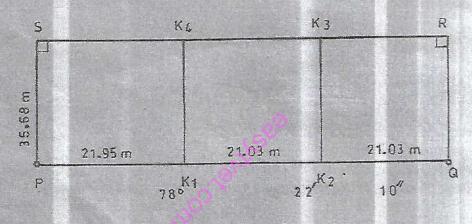


Fig.1

Table 1

POINT	NORTHING (m)	EASTING (m)
P	-140558.68	-17332.39
Tr	-140537.93	-17224.25

Line bearing distance 4 E

- 2. Figure 2 shows measured distances and observed angles for a traverse run between two control points X and Y. Using the information in the figure and datum coordinates in table 2, determine:
 - (i) corrected bearings for the traverse lines.
 - (ii) the swing and scale factor.

(20 marks)

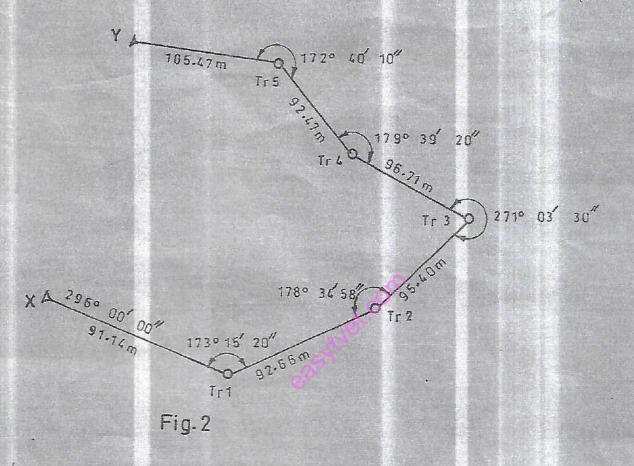
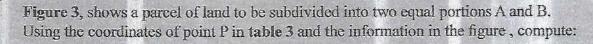


Table 2

POINT	NORTHING (m)	EASTING (m)
X	+2939.93	+4004.20
Y	+3312.67	+3807.09



- (i) the coordinates of the corner points of the parcel;
- (ii) the area of the parcel in square metres;
- (iii) the coordinates of the on-line beacon K3 in order to achieve the sub-division condition.

(20 marks)

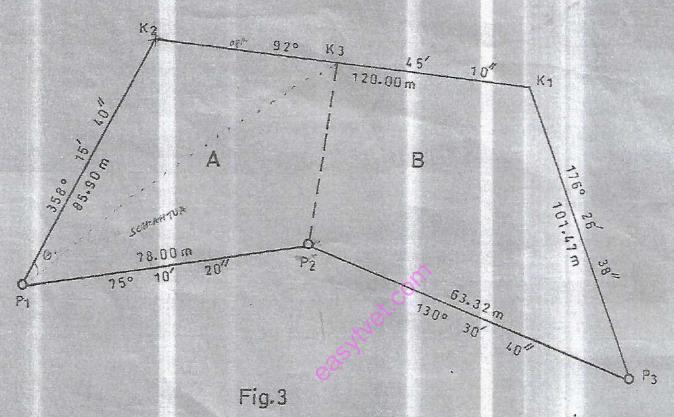


Table 3

POINT	NORTHING (m)	EASTING (m)
P2	-45647.60	+38800.15

4.	(a)	Describe the procedure of preparing a DEED plan for a new grant.	(5 marks)
	(b)	State the provisions of the survey regulations concerning the following:	
		(i) Erasures and corrections on a Deed plan;	
		(ii) Cancellation of a Deed plan.	(5 marks)
	(c)	State six objectives of final checking in cadastral surveying to return to plant control of the same state of the same s	(6 marks)
	(d)	State six objectives of final checking in cadastral surveying. - plan conforms in shape and size - Beautiful proceed - saving according to relevant plan conformation transaction transaction. - objective of Survey recent transaction transaction per proceed is explained under the surveying. - Explain the importance of consistency checks in cadastral surveying. - Baudday Cata must represent a closed trigure of conformation are comparation are comparation are comparation and conformation of the Explain the role of the following officers in an adjudication team:	(4 marks)
5.	(a)	Explain the role of the following officers in an adjudication team:	book with the tweet forms
)		(i) Adjudication officer; - overall supermover of the adjudication process (ii) Recording officer; - records makes records off of the percel after (iii) Demarcation officer; - makes the boundary makes (iv) Survey officer	the right accordance)
		(iv) that vely officer 2	(8 marks)
	(b)	Explain the purpose of a Registration Index Nap (RIM) in cadastral surveying	g. (3 marks)
	(c)	State three types of mutation surveys carried out under General Boundary su	rveys. (3 marks)
	(d)	Explain the procedure of carrying out the following in a mutation survey.	
		(i) Completion of the mutation form; (ii) Fieldwork:	(6 marks)
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SECTION B: LAND LAW

Answer TWO questions from this section.

8.	(a)	Distinguish between private law and international law. - International govern international state relation internationally. - private entailes majors stated as private private majors personally private private majors and private majors and private private majors and private private majors and private privat	(4 marks)	
	(b)	Explain how legislation becomes a source of law in Kenya.	(4 marks)	
	(c)	Describe the three restraints that can be entered on the Land Register to prev	ent a legal	
		owner from transacting in his/her property.	(6 marks)	
	(d)	State six requirements for a proprietor to transfer ownership in a sale transact	ion. (6 marks)	
7.	(a)	Explain the actions to be taken by the Land Registrar as provided in the Land Registration Act of 2012, concerning the following:		
		(i) combinations; (ii) sub-divisions;		Ö
		(iii) re-parcellations	(10 marks)	
	(b)	(i) Define the term "Boundary" as used in land law - venticul surface once torritory storicads and the adjoining percul stories.	hert Nethous	delhere
		(ii) Explain how the term "Fixed Boundary" is used under RTA and RLA	. (6 marks)	
	(c)	State the provisions of the Land Registration Act of 1963 as concerns boundarmaintenance.	ry (4 marks)	
8.	(a)	State the Land Registration provisions in Kenya as from 1900, pointing out the enactment for each.	he year of (6 marks)	
	(b)	Compare R.L.A and R.T.A in terms of:		
		(i) Indefeasibility title; (ii) Unregistered interests and rights.	(4 marks)	
	(c)	Explain the three main principles of title registration.	(6 marks)	
	(d)	State four advantages of Land Registration.	(4 marks)	

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