

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

DEPARTMENT OF LAND AND SPATIAL SCIENCES

QUALIFICATIONS: BACHELOR OF GEOMATICS, DIPLOMA IN GEOMATICS	
QUALIFICATIONS CODES:07BGEO,06DGEO	QUALIFICATIONS LEVEL: 7 - 07BGEO, 6 - 06DGEO
COURSE CODE: CAS520S	COURSE NAME: CADASTRAL SURVEYING 1
SESSION: JUNE 2023	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

*	FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER:	Mr T.Makaza	
MODERATOR:	Mr S. Sinvula	

	INSTRUCTIONS
1.	Answer ALL the questions.
2.	Write clearly and neatly.
3.	Number the answers clearly.

PERMISSIBLE MATERIALS

Calculator, ruler, pencil and eraser

THIS QUESTION PAPER CONSISTS OF 4 PAGES (Including this front page)

Question 1

(a)	Cadastral surveying can be carried out as two (2) operations. State them.	(2)
(b)	In South Africa the first land surveyor came to the Cape in 1657. The first cadastral surve	y was the
	survey of a piece of land on the banks of the Liesbeeck River. Describe the features that were	adopted
	as boundaries for the said property.	(2)
(c)	What was the reason for the promulgation of Act No. 32 of 1993?	(2)
(d)	Outline any five (5) powers and duties of the Surveyor General.	(10)
(e)	Give a short summary of the history of Cadastral Surveying in Namibia.	(6)
(f)	The cadastral system in Namibia is considered among the best internationally. Explain any tw for this.	o reasons (2)
(g)	ho are the members of Namibian Council for Professional Land Surveyors, Technical Surveyors	
	Survey Technicians (SURCON)	(5)
(h)	Define 'Land Surveyor' as per the Land Survey Act 33 of 1993.	(3)
		[32]
Ques	tion 2	
(a)	Explain four (4) reasons that may necessitate a beacon relocation.	(4)
(b)	Outline the requirements for a piece of land to be registered in the Deeds Registry?	(2)
(c)	Before carrying out a survey, one of the important things that a land surveyor does is to	go to the
Surveyor General's office to look for survey information. Indicate any three		s of such
	information.	(3)

[9]

Question 3

(a)	Briefly explain the key processes to be followed by an owner who wishes to subdivide an erd	in a
	township. Also include the professionals that are involved.	(4)

(b) When doing a subdivision, which two (2) methods can be used to determine the coordinates of the new beacons to be placed. (2)

[6]

Question 4

(a) Mention and describe any five (5) kinds of survey diagrams.

(10)

(b) Mention any eight (8) types of essential information found on a diagram.

(8)

(c) Name and briefly explain the two(2) types of property registers found in the Surveyor General's office.

(6)

(d) Explain the difference between a diagram and a general plan.

(2)

[26]

Question 5

- (a) State any five (5) headings that may prove useful as a basis for a cadastral survey report. (5)
- (b) When preparing a subdivision sketch it is critical to include information that may have a bearing on the subdivision. Name five (5) examples of such information. (6)
- (c) Mention a least seven (7) components of survey records. (7)
- (d) The Surveyor General usually approves a minimum of three copies of a diagram. Explain who keeps these three (3) copies after approval. (3)
- (e) What is the purpose of a data consistency check? (2)

[22]

Cadastral Surveying 1 CASS20S

Question 6

Indicate what the following symbols denote on a working plan.

(a)	single black circle	(1)
(b)	double black circle	(1)
(c)	single red circle	(1)
(d)	circle with a cross	(1)
(e)	triangle	(1)
		[5]