

## **FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES**

## **DEPARTMENT OF GEO-SPATIAL SCIENCES AND TECHNOLOGY**

QUALIFICATIONS:			
BACHELOR OF GEOMATICS, DIPLOMA IN GEOMATICS			
QUALIFICATION CODE: 07BGEM ,06DGEM	LEVEL: 5		
COURSE CODE: CAS520S	COURSE NAME: CADASTRAL SURVEYING 1		
SESSION: NOVEMBER 2019	PAPER: THEORY		
DURATION: 3 HOURS	MARKS: 100		

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER		
EXAMINER	Mr T. Makaza	
MODERATOR	Mr J C. Lewis	

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 5 PAGES (Including this front page)

QL	JEST	TOP	V 1

1.1	Define cadastral surveying.	(4)
1.2	Describe the purpose of the Land Survey Act 33 of 1993.	(1)
1.3	Explain how current cadastral systems around the world tend to resemble the Ancient Eg Cadastral system.	gyptian (2)
1.4	Name and explain the <b>two (2)</b> types of cadastral boundaries used by countries around the Which type is used in Namibia?	world. (5)
1.5	Outline the four (4) duties of a Land Surveyor as per the Land Survey Act 33 of 1993.	(8)
		[20]
QUEST	TION 2	
2.1	Describe the following four (4) types of demarcation:	
	(a) Beacon relocation	(2)
	(b) Subdivision	(2)
	(c) Consolidation	(2)
	(d) 'Servitude'. Indicate the terms given to the two properties that are the subjects of a ser	vitude. (4)
	(e) In what way does $\alpha$ personal servitude differ from a praedial servitude?	(2)

cadastral survey.

2.2

Describe the following procedures that a land surveyor follows when preparing to go and perform a

	(a) Liaising with property owners	(2)
	(b) Searching for survey information in the Surveyor General's Office	(2)
2.3	Mention the <b>six (6)</b> members of the Namibia Council of Professional, Technical Surveyors Survey Technicians.	and (6)
		[22]
QUEST	I <u>ON 3</u>	
3.1	Define parent diagram.	(2)
3.2	State <b>two (2)</b> typical scenarios that can assist a land surveyor in identifying the correct noting when searching for information in the Surveyor General's office prior to commencing field works.	
3.3	For the purpose of Deeds registration Namibia is divided into partitions. What name is given to partitions?	these (1)
3.4	Give a brief description of each of the following <b>four (4)</b> sections that comprise the Division of Survey and Land Information;	
	(a) Section of Cadastral Surveys	(2)
	(b) Section of Geodetic Surveys	(2)
	(c) Section of Survey Examinations.	(2)
3.5	Mention any five (5) kinds of information that you find on a farm index card.	(5)
3.6	Describe any two (2) characteristics of Noting Plans.	(4) [ <b>20</b> ]

Cadastral Surveying 1 CAS520S

OI	JES.	TIO	N	Λ
u	JES	טוו	IV	4

4.1	What is the importance of the subdivision sketch during examination at the Surveyor Ge Office?	eneral's (2)
1.2	Mention two (2) possible ways by which you can obtain the coordinates of new sub-	division (2)
1.3	If you are demarcating a property using a Total Station, explain how you would place sub- beacons if control points are far from the site of the survey.	division (2)
1.4	Describe the following records that must be included in the survey records:  (a) Survey report.  (b) Regulation 57(1)k certificate.  (c) Working plan.	(2) (2) (2)
1.5	In the case of a servitude diagram explain why it is ideal to have a minimum number of four	copies
	of the same diagram approved by the Surveyor General .	(4) [16]
QUEST	of the same diagram approved by the Surveyor General .  TION 5	
QUEST		
	TION 5	
	TION 5  Define the following:	[16]
	Define the following:  (a) Accurately determined.	[16] (1
5.1	Define the following:  (a) Accurately determined.  (b) An arc of observations.	[16] (1 (1)

	(b) A bead	con for rural land.	(2)
5.4	Mention as beacon.	ny <b>three (3</b> ) circumstances when it shall not be necessary to define a corner point	by a (6)
5.5	Mention th	e symbols (you may use sketches) used for the following:	
	(a) Beaco	n placed	(1)
	(b) Beaco	n found	(1)
	(c) Trigon	ometrical beacon	(1)
	(d) Line in	dicating adjacent properties.	(1)
		[	22]

Cadastral Surveying 1

CAS520S