



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

DEPARTMENT OF LAND AND SPATIAL SCIENCES

QUALIFICATIONS: BACHELOR OF GEOMATICS, DIPLOMA IN GEOMATICS	
QUALIFICATIONS CODES: 06DGEO, 07BGEO	QUALIFICATIONS LEVEL: 6 – 06DGEO, 7 - 07BGEO
COURSE CODE: CAS610S	COURSE NAME: CADASTRAL SURVEYING 2
SESSION: JULY 2023	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

SECOND OPPORTUNITY/SUPPLEMENTARY EXAMINATION QUESTION PAPER

EXAMINER:	Mr T. Makaza
MODERATOR:	Mr S. Sinvula

INSTRUCTIONS

1. You **MUST** answer **ALL** QUESTIONS.
2. Write clearly and neatly.
3. Number the answers clearly.

PERMISSIBLE MATERIALS

Calculators may be used as well as other drawing equipment

THIS QUESTION PAPER CONSISTS OF 4 PAGES (Including this Front Page)

Question 1

Explain the following in the context of Act 33 of 1993 and its regulations:

- (a) Accurately determined (2)
- (b) Rectilinear boundary (2)
- (c) "Arc" of observations (2)
- (d) township (2)

[8]

Question 2

Outline three aspects that need to be satisfied for a beacon and boundary to be deemed to be lawfully established in terms of Act 33 of 1993. **[6]**

Question 3

- (a) In terms of Act 33 of 1993, certain situations require "an agreement in relation to beacons and boundaries". Give at least two (2) such situations and indicate all the required signatories of such agreement. (8)
- (b) Unless otherwise clearly stated, when a river constitutes a boundary of any piece of land, the state where the boundary of such piece of land lies and how such boundary can be surveyed. (3)
- (c) State who is responsible for maintaining in proper order any beacon or mark defining a corner point of a piece of land. (2)
- (d) Act 33 of 1993 gives the Surveyor General and land surveyors certain powers regarding entering private land to perform their duties. State these five (5) powers. (10)

[23]

Question 4

Describe the provisions for fixing the position of points as per regulation 6(3) by;

- (a) Resection (6)

- (b) Intersection (4)
- (c) Traversing between two (2) fixed points. (2)

[12]

Question 5

Prior to registration of an approved diagram or general plan, the Surveyor- General shall not issue a certified copy of that diagram or general plan to any person unless the written consent of the land surveyor concerned or of a person acting on behalf of that land surveyor has been produced to the Surveyor- General. State exceptions to this requirement. [10]

Question 6

- (a) Which numerical data shall a diagram contain? (Any four (4) types) (4)
- (b) State **all** cases when it shall not be necessary to state coordinates on a diagram. (6)
- (c) What are the guidelines for indicating directions on a diagram for sides less than 1000 metres and those more than 1000 metres? (2)
- (e) Who gives authorisation to conduct surveys of state land? (1)
- (f) When preparing a report on survey land survey regulations states certain key headings that may form the basis of such a report. State any four(4) of them. (4)

[17]

Question 7 (All questions relate to Act 32 of 1993)

- (a) What are the ten (10) powers and functions of the Surveyors Registration Council of Namibia in terms of Act 32 of 1993 (10)

- (b) Name any five (5) acts or offences that for disciplinary proceedings against a professional land surveyor constitute "professional misconduct". (10)

[20]

Question 8

Outline the following aspects related to the Fencing Act 17 of 1912:

- (a) Dividing fence (2)
- (b) Give and take line. (2)

[4]
