



**NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY**

**FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT**

**DEPARTMENT OF LAND AND SPATIAL SCIENCES**

<b>QUALIFICATIONS:</b> BACHELOR OF GEOMATICS, DIPLOMA IN GEOMATICS	
<b>QUALIFICATIONS CODES:</b> 06DGEO, 07BGEO	<b>QUALIFICATIONS LEVEL:</b> 6 – 06DGEO, 7 - 07BGEO
<b>COURSE CODE:</b> CAS610S	<b>COURSE NAME:</b> CADASTRAL SURVEYING 2
<b>SESSION:</b> JUNE 2024	<b>PAPER:</b> THEORY
<b>DURATION:</b> 3 HOURS	<b>MARKS:</b> 100

<b>FIRST OPPORTUNITY EXAMINATION QUESTION PAPER</b>	
<b>EXAMINER:</b>	<b>Mr T. Makaza</b>
<b>MODERATOR:</b>	<b>Mr S. Sinvula</b>

<b>INSTRUCTIONS</b>
<ol style="list-style-type: none"><li>1. Answer ALL the questions.</li><li>2. Write clearly and neatly.</li><li>3. Number the answers clearly.</li></ol>

**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 regulations and/or as discussed in class.

- (a) Extinctive prescription. (2)
- (b) Contiguous owner. (2)
- (c) Seashore. (2)
- (d) Aggregate area (in the context of a consolidation). (2)
- (e) Servitude of uniform width. (2)

[10]

---

**Question 2**

- (a) An arbitrator appointed under Act 33 of 1993 shall take into consideration the circumstances of the particular case, but shall in general be guided by certain principles. Outline these principles. (6)
- (b) In the event that the original boundary cannot be established with certainty, a land surveyor may resort to certain aspects that may be considered as evidence in determining the most likely boundary position. Name these FIVE categories of evidence in the correct order in terms of the hierarchy of evidence concept. (10)
- (c) Explain the procedure to be followed by a land surveyor prior to surveying a boundary consisting of the high water mark. (2)

[18]

---

**Question 3**

- (a) Outline ANY 8 powers and duties of the Surveyor General. (8)
- (b) State the duties of land surveyors. (8)

[16]

---

**Question 4**

- (a) Which numerical data shall be indicated on a diagram? (Any four(4) types. (4)
- (b) State FULLY the requirements for survey by means of SBP techniques . (4)
- (c) What are the guidelines for recording lengths and directions on a general plan. (6)

**[14]**

---

**Question 5**

- (a) Regulation 15 provides specifications for beacons. However, there are certain circumstances that require a land surveyor to deviate from the general specifications of beacons due to the nature of the ground where the position of the beacon falls. Outline ANY THREE of the special conditions and how they shall be handled in terms of modifications to the general specification of beacons. (6)
- (b) When a land surveyor is prevented from obtaining access to the middle of a river forming a boundary explain how he or she may determine the boundary. (2)
- (c) Name ANY 6 components of survey records. (6)

**[14]**

---

**Question 6**

**(All questions relate to Act 32 of 1993. Any reference to COUNCIL in this question refers to the Namibian Council of Professional Land Surveyors, Technical Surveyors and Survey Technicians).**

- (a) The register of practitioners shall consist of different categories of practitioners under Act 32 of 1993. State all of them. (6)
- (b) Name ANY 5 acts or offences that for disciplinary proceedings against a professional land surveyor constitute professional misconduct. (10)

**[16]**

**Question 7**

**(The following questions are in the context of the opinion article Boundaries, Walls and Fences  
(Source: Reader's Digest's You and Your Rights))**

- (a) Describe fully the rights and restrictions of a land owner. (2)
- (b) Explain the different options in which an encroachment can be addressed and some of the major considerations taken into account in deciding upon a fair and balanced approach. (6)
- (c) According to the Roman-Dutch rule there are two cases where a landowner cannot insist on demolition of an encroaching structure. State these cases and explain how a decision was made in the court case Rand Waterraad versus Bothma. (4)

**[12]**

