



**PAMIBIA UNIVERSITY**  
OF SCIENCE AND TECHNOLOGY

**FACULTY OF ENGINEERING AND SPATIAL SCIENCES**

**DEPARTMENT OF ARCHITECTURE 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 2022	<b>PAPER:</b> THEORY
<b>DURATION:</b> 3 HOURS	<b>MARKS:</b> 100

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

<b>INSTRUCTIONS</b>
<ol style="list-style-type: none"><li>1. You <b>MUST</b> answer <b>ALL</b> 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 FrontPage)

**Question 1**

Explain the following in the context of Act 33 of 1993 and regulations and/or as discussed in class.

- (a) Servient tenement (in relation to servitudes) (2)
- (b) Alignment of a beacon (2)
- (c) Accurately determined (2)
- (d) Land abutting on a river (2)
- (e) Lapse by merger (in the context of a servitude) (2)
- (f) Aggregate area (in relation to consolidation diagram) (2)

[12]

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**Question 2**

- (a) What are the duties of a land surveyor? (8)
- (b) Outline **any five** powers and duties of the Surveyor General. (5)

[13]

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**Question 3**

- (a) What are the minimum specifications for beacons in terms of regulation 15? How shall special conditions on the ground be handled? (7)
- (b) Explain how an indicative beacon shall be placed. (2)
- (c) State clearly how lengths and directions shall be recorded on a general plan. (6)
- (d) According to regulation 16, state ALL cases where it shall not be necessary to place beacons during a survey. (10)

- (e) Describe FULLY the procedure for connecting a survey to the national survey control system when satellite-based positioning techniques are being used. (2)
- (f) Regulation 18 refers to favourably situated main survey stations. Name ANY TWO attributes of such stations. (2)
- (g) Regulation 9 prescribes limits of allowable errors in different classes of fieldwork. Outline these classes with a typical example for each class of the survey. (6)
- (h) Name any six components of survey records. (6)

[41]

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**Question 4** (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) Outline the categories of persons that are not eligible for appointment to the Council as members or alternate members. (7)
- (b) Persons registered as apprentices are required to work under supervision. Outline the minimum requirements for supervision for the different categories of apprentices. (6)
- (c) State the members of Council. (5)
- (d) What acts constitute professional misconduct for disciplinary proceedings against a practitioner? (Exclude those acts specifically referring to a professional land surveyor) (7)

[25]

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**Question 5**

- (a) Explain the principle of acquisitive prescription AND the requirements for a person to claim rights through prescription (4)
- (b) Explain the concept of a give and take line in the context of the Fencing Act of 1912. (2)
- (c) Name all common offences related to the Fencing Act of 1912. (3)

**[9]**

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