



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY
FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES**

DEPARTMENT OF GEO-SPATIAL SCIENCES AND TECHNOLOGY

QUALIFICATIONS: DIPLOMA IN GEOMATICS BACHELOR OF GEOMATICS	
QUALIFICATION CODES: 06DGEM 07BGEM	LEVEL: 6 7
COURSE CODE: CAS610S	COURSE NAME: CADASTRAL SURVEYING 2
SESSION: JUNE 2019	PAPER: THEORY
Duration: 3 HOURS	Marks: 100

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

INSTRUCTIONS	
1.	You MUST answer ALL the questions.
2.	Write clearly and neatly.
3.	Number the answers clearly.
4.	Make sure your Student Number is on the EXAMINATION BOOK(s).
5.	Make sure your Student Number is on all the Data Sheets and that you submit them with your EXAMINATION BOOK(s).

PERMISSIBLE MATERIALS

1. Calculator
2. Ruler
3. Pencil
4. Eraser

THIS QUESTION PAPER CONSISTS OF 5 PAGES (Including this front page)

Question 1

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

- 1.1. Dominant tenement (in relation to servitudes) (2)
- 1.2. Sea shore (2)
- 1.3. Servitude of aqueduct (2)
- 1.4. Riparian land (2)
- 1.5. Aggregate area (in relation to a consolidated diagram) (2)
- 1.6. Lapse by merger (in relation to a servitude) (2)
- 1.7. Original diagram (2)
- 1.8. Prescription of debt (2)

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Question 2

- 2.1. There are a number of options that can be taken to resolve an encroachment between two properties. Outline ANY THREE of these possible options. (6)
- 2.2. Explain a suitable choice of method for boundary demarcation in a case where the location of the new boundary depends on visible objects such as existing fences or buildings. (2)
- 2.3. Section 7(2) of Act 33 of 1993 states;

“Where any act in relation to a survey and field operations is required in terms of any provision of this Act to be performed under the supervision of a land surveyor, such provision shall be deemed to be complied with if such act is performed in the presence of and with the active participation by a land surveyor”

Discuss the above provision of the Act, citing your opinion on potential challenges this may present for a land surveyor who employs a number of technicians. (3)

2.4. Section 21(1) of Act 33 of 1993 states;

“ When the recognised boundaries of pieces of land composing a township do not conform with the boundaries represented on their respective diagrams or the general plan.....”

State clearly how the above situation can be resolved. (2)

2.5. Section 30(1) of Act 33 of 1993 prohibits certain acts to be done within a distance of one metre from a trigonometrical station. What are these THREE acts? (3)

2.6. Act 33 of 1993 gives the Surveyor General and land surveyors certain powers regarding entering private land for the purpose of performing their duties. State these FIVE powers. (10)

2.7. Outline ANY SIX powers and duties of the Surveyor General. (6)

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Question 3

3.1. State clearly how lengths and directions shall be recorded on a general plan (6)

3.2. Outline the specifications for beacons in terms of regulation 15 of Act 33 of 1993. Indicate explicitly how special conditions on the ground shall be dealt with. (7)

3.3. How shall a servitude of uniform width be beaconed? (State at least TWO options) (2)

3.4. How can the middle of a river be surveyed in a case when it constitutes a parcel boundary? (2)

3.5. What are the requirements for survey records when the survey involves the replacement of beacons into coordinate positions previously established on the trigonometrical system? (2)

- 3.6. Regulation 9 specifies the limits of allowable error in field work into classes. State the classes with a typical example of survey for each class. (6)

[25]

Question 4 - (all questions relate to Act 32 of 1993)

- 4.1. State the composition of the Namibian Council for Professional Land Surveyors, Technical Surveyors and Survey Technicians? (5)
- 4.2. Persons registered as apprentices are required to work under supervision. Indicate the minimum requirements for supervision for each category of practitioners. (3)
- 4.3. The Registrar shall remove from the register the name of a practitioner and cancel his or her registration certificate in a number of circumstances. Name ANY SIX such circumstances. (6)
- 4.4. Outline ANY SIX categories of persons that are not eligible for appointment to the Council as members or alternate members. (6)

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Question 5

- 5.1. In terms of the Subdivision of Agricultural land Act 70 of 1970 certain categories of land are excluded from the provisions of this act. Indicate these categories (3)
- 5.2. What is the main consideration for approval of an application for subdivision of agricultural land? (1)
- 5.3. List the offences that may attract fines or imprisonment in terms of the Fencing Act 17 of 1912. (3)

[7]