

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: JUNE 2023	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 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)

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Question 1

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

(a)	Rectilinear boundary	(2)
(b)	Original diagram	(2)
(c)	Registration (in relation to land)	(2)
(d)	Sea shore	(2)
(e)	Lapse by merger (in the context of a servitude)	(2)
(f)	Rural land	(2)
(g)	Curvilinear boundary	(2)
(h)	Alignment of a beacon	(2)
		[16]

Question 2

- (a) The Survey regulations board makes regulations in relation to certain matters. Name at any five(5) of such matters. (10)
- (b) 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)

[16]

Question 3

(a) State three (3) things that are not permitted to be placed or made near a trigonometrical beacon.

(3)

- (b) What type of surveys are exempted from the provisions of Act 33 of 1993.
- (3)

(c) Outline the duties of land surveyors.

(4) [10] Cadastral Surveying 2 CAS610S

Question 4

(a) Under what circumstances is it not necessary to indicate coordinates on a diagram? (3)

(b) In the survey of new townships and extensions FULLY outline the guidelines on how reference marks shall be placed.(Answer should indicate minimum number and spacing as well as dimensions).

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

[14]

(6)

Question 5

(a) A diagram shall contain coordinates of certain points, in metres, to two decimal places. Name at least five (5) of such points. (5)

(b) Apart from coordinates, what other numerical data needs to be shown on a diagram? (4)

(c) On a diagram the locality of the land under survey is indicated. State what such locality information consists of. (3)

[12]

Question 6

(a) Regulation 18 refers to favourably situated main survey stations. Name ANY TWO attributes of such stations. (2)

(b) Name any six(6) components of survey records. (6)

(c) (Fill in the missing information in following statement). (2)

Unless a point is otherwise adequately checked -when its position is determined by intersection or trilateration, the angle at the vertex of any triangle used in such determination shall not be less than degrees nor greater than degrees.

[10]

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Question 7

(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 all acts which a person may do to be called a practitioner under this Act. (3)
- (c) Outline the categories of persons that are not eligible for appointment to the Council as members or alternate members. (7)

[16]

Question 8

- (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)

[6]