

**THE UNITED REPUBLIC OF TANZANIA  
NATIONAL EXAMINATIONS COUNCIL  
ADVANCED CERTIFICATE OF SECONDARY EDUCATION  
EXAMINATION**

**113/1**

**Geography 1**  
(For Both School and Private Candidates)

**Time: 3 Hours**

**Tuesday, 03<sup>rd</sup> May 2016 p.m.**

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**Instructions**

1. This paper consists of **nine (9)** questions in sections A and B.
2. Answer a total of **five (5)** questions; **two (2)** questions from section A and **three (3)** questions from section B. Question number **one (1)** is compulsory.
3. In section A, question number **one (1)** carries **25** marks and the rest **15** marks, while in section B each question carries **20** marks.
4. Credit will be given for the use of relevant sketch maps and diagrams.
5. Map extract of HANANG (sheet 84/4) For question number one (1) is provided.
6. Non programmable calculators may be used.
7. Cellular phones are **not** allowed in the examination room.
8. Write your **Examination Number** on every page of your answer booklet(s).

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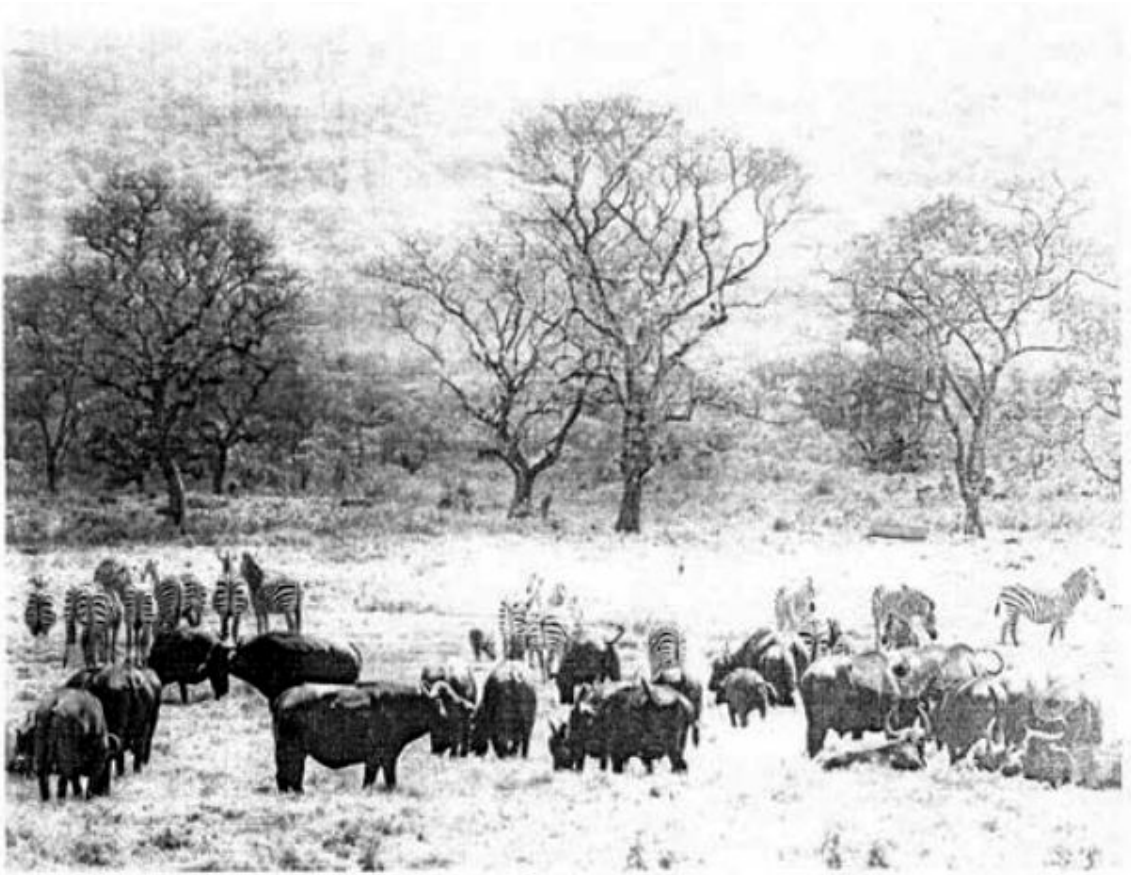


## SECTION A (40 marks)

Answer question **number 1** and any other question from this section.

1. Study carefully the map extract of HANANG Sheet 84/4 provided then answer the following questions:
  - (a) Calculate the area covered by Lake Balangida in square kilometers.
  - (b) What type of landscapes does the map depict?
  - (c) Identify the type of drainage pattern of the mapped area.
  - (d) What are the three major indicators of climate in the area? Give evidence.
  - (e) With evidence from the map, outline types of soil found in the area.
  - (f) Explain four land uses in the mapped area.
  - (g) A farmer was at grid reference 680160. He saw fire in the North East (4.2 kilometers).
    - (i) Find the grid reference position of the fire.
    - (ii) Name the physical obstacles which the farmer will face if he walks in a straight line to the position of the fire.
2.
  - (a) Describe six shortcomings of using questionnaires in research data collection.
  - (b) Analyse advantages and disadvantages of the case study design.
3.
  - (a) Explain five qualities and three limitations of prismatic compass survey.
  - (b) Classify obstacles encountered in chain survey.

4. Study carefully the following photograph and answer the questions that follow:

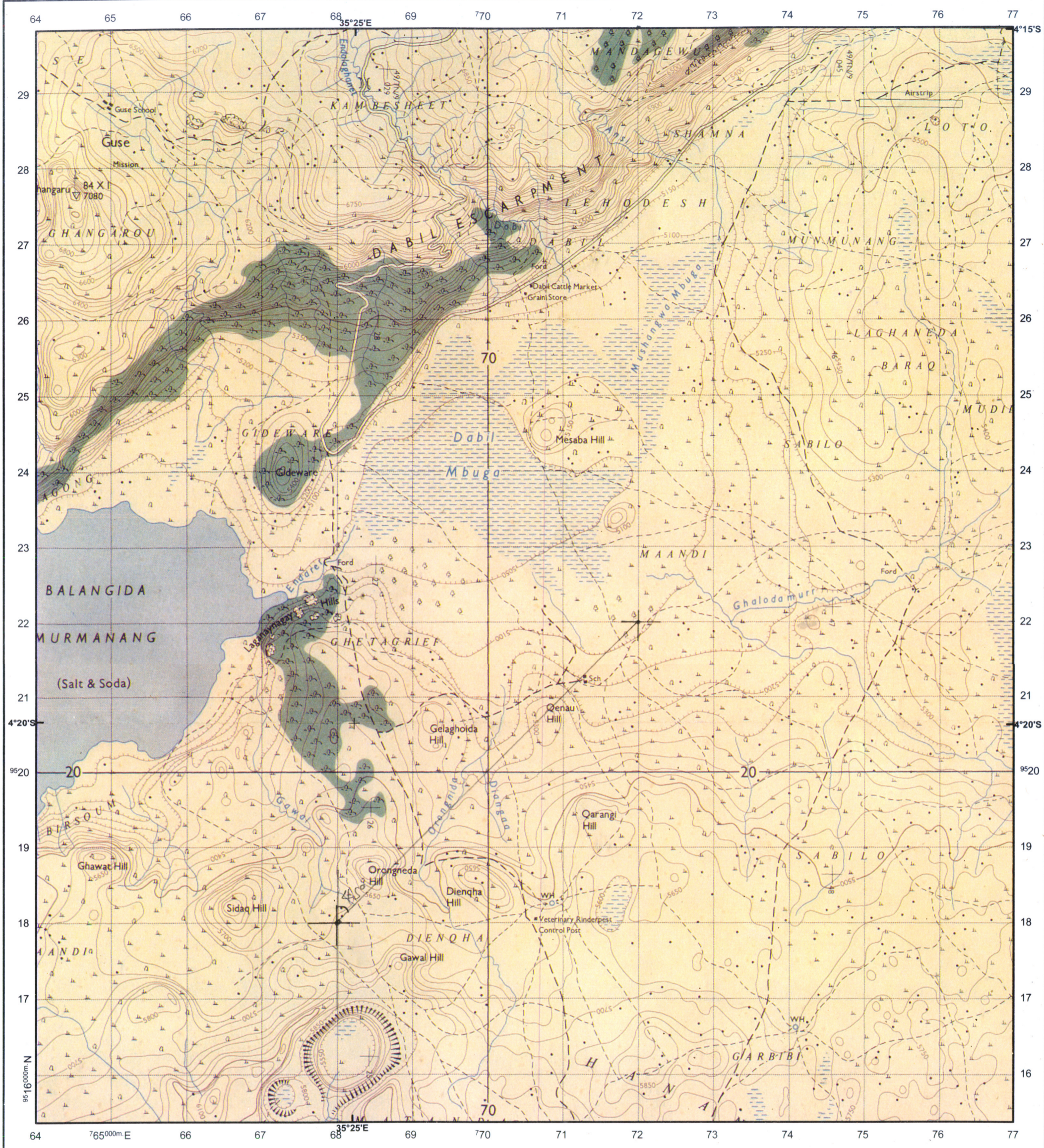


- (a) Name the type of photograph.
- (b) Explain three basic techniques for interpreting the type of the photograph named in (a) above.
- (c) Identify the major economic activity that might take place in the area.
- (d) Describe four factors that favour development of the major economic activity in (c) above.
- (e) Briefly describe the natural causes of loss of biodiversity in the area.
- (f) With evidences from the photograph, describe parts of the given photograph.
- (g) Name three possible places in Tanzania where the photograph might have been taken.

**SECTION B (60 marks)**

Answer **three (3)** questions from this section.

5. Explain eight factors responsible for the occurrence of river regime.
6. Analyse the causes of the plate's movements of the lithosphere.
7. Describe five meteorological and edaphic effects on global vegetation variations.
8. Examine eight adaptive features of plants to desert hostile environment.
9. Describe volcanoes according to their mode of formation.



Extract from Hanang, Sheet 84/4  
 Series Y742, Edition 1-TSD/ Ministry of Lands,  
 Government of the United Republic of Tanzania 1964

HEIGHTS IN FEET

Scale 1: 50,000



Town or area with permanent buildings	Telephone Line	Borehole, Water Hole, Well, Spring	Scattered Trees	ABBREVIATIONS
Other populated area, Houses	Telephone Line along Road	Bund, Major Fence, Hedge	Palm Trees	Ch Church
All Weather Road:- Bound Surface	Power Line	Cliff	Mangrove Swamp	CBP Cotton Buying Post
All Weather Road:- Loose Surface	Crater	Forest	Tree Swamp	CtHo Court House
Main Track (Motorable)	Steep Slope	Thicket	Papyrus Swamp, Marsh, Boge	DC District Commissioner
Other Track and Footpath	Spot Height (in metres)	Bamboo	Seasonal Swamp	Disp Dispensary
Cut Line	Contours (V.I. 50ft)	Riverrine Trees	Sand or Mud Inland Coastal	Hosp Hospital
Railway Siding, Station, Level Crossing	Depression	Plantation:- (Coffee C, Palm T, Sisal S, Sugar Su, Wattle W)	Outcrop Rock	HC Healthy Centre
Railway Light	Air Photo Principal Point with Film No.	Woodland	Coral	M Mission
Airfield Runway	Watercourse, Waterfall, Rapids, Dams	Scrub		Mkt Market
	Watercourse, (Wide), Waterfall Rapids			Mosq Mosque
	Watercourse (Indefinite)			MoW Ministry of Works
	WaterTank, Windpump			PO Post Office
				PP Police Post
				PS Police Station
				RH Rest House
				Sch School
				T Telephone
				TG Telegraph