

**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, 12th February 2013 p.m.

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 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 LEMBENI Sheet 73/3 provided and answer the following questions:
 - (a) By using RF scale given, calculate the distance of the loose surface road in kilometers from grid reference 564854 to 464760.
 - (b) From the map, show the merits and demerits of using cartographic symbols and signs.
 - (c) With vivid evidence from the map, elaborate the geological patterns found in the area.
 - (d) Describe the geomorphic processes which might have moulded the landforms in the area.
 - (e) With concrete evidence from the map, suggest the climate of the area.
2. Explain five advantages of simple chain survey over plane table survey.
3.
 - (a) Briefly explain the following concepts as applied in field research techniques.
 - (i) Research problem
 - (ii) Primary data
 - (iii) Literature review
 - (iv) Research methodology
 - (v) Sampling techniques.
 - (b) Explain the components of research report.
4.
 - (a) Explain four aspects to consider before analyzing the contents of a ground level photograph.
 - (b) Find the scale of the photograph when two landmarks shown on the photograph can be located on 1:25000 scale of topographical map. The measured distance between the landmarks is 47.2 mm on the map and 94 mm on the photograph.
 - (c) Outline four disadvantages of aerial photographs.

SECTION B (60 marks)

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

5. 'Glaciated regions are not that bad.' Justify.
6. Give an account of the factors which influence the salinity of ocean water (provide six points).
7. (a) Explain eight characteristics of the Tropical rainforest.
(b) Examine the relationship between climatic regions and river regimes (give five points).
8. Describe six factors that determine the resistance of the rock to denudation.
9. Examine eight methods to use in soil conservation in order to improve agricultural production in Tanzania.

LEMBENI

Town or area with permanent buildings	
Other populated area, Houses	
All Weather Road Bound Surface	
All Weather Road Loose Surface	
Dry Weather Road	
Main Track (Motorable)	
Other Track and Footpath	
Cut Line	
Railway, Siding, Station, Level Crossing	
Airfield Runway	
Telephone Line	
Power Line	
Crater	
Steep Slope	
Spot Heights (in metres)	
Contours (V.I 20m)	
Depression	
Air Photo Principal Point with Film No.	
Watercourse, Waterfall, Rapids, Dam	
Watercourse (Wide), Waterfall, Rapids	
Water Tank, Windpump	
Borehole, Waterhole, Well, Spring	
Bund, Major Fence, Hedge, Wall	
Cliff	
Forest	
Thicket	
Bamboo	
Riverrine Trees	
Plantation (Coffee C, Sisal S, Sugar Su, Palm T Wattle W, Cashew Nut CN)	
Woodland	
Scrub	
Scattered Trees	
Palms	
Mangroove Swamp	
Tree Swamp	
Papyrus Swamp, Marsh, Bog	
Seasonal Swamp	
Sand or Mud	
Inland	
Coastal	
Outcrop Rock	
Coral	

ABBREVIATIONS

CBP	Cotton Buying Centre	M	Mission	PS	Police Station
CH	Church	Mkt	Market	RH	Rest House
CHC	Court House	Mosq	Mosque	Sch	School
Disp	Dispensary	PO	Post Office	T	Telephone
Hosp	Hospital	PP	Police Post	Tg	Telegraph

Scale 1: 50,000

HEIGHTS IN METRES

10.5012

Kilometers

Extract from Lembeni Sheet 73/3

Series Y742, Edition 2-TSD/ Ministry of Lands.

Government of the United Republic of Tanzania 1988

