

**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.

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

Slope

Spot Heights (in metres)

Contours (VI 20m)

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

Riverine Trees

Plantation (Coffee C, Sugar Su, Palm)
(Wattle W, Cashew Nut CN)

Woodland

Scrub

Scattered Trees

Palms

Mangrove Swamp

Tree Swamp

Papyrus Swamp, Marsh, Bog

Seasonal Swamp

Sand or Mud

Inland

Coastal

Outcrop Rock

Coral

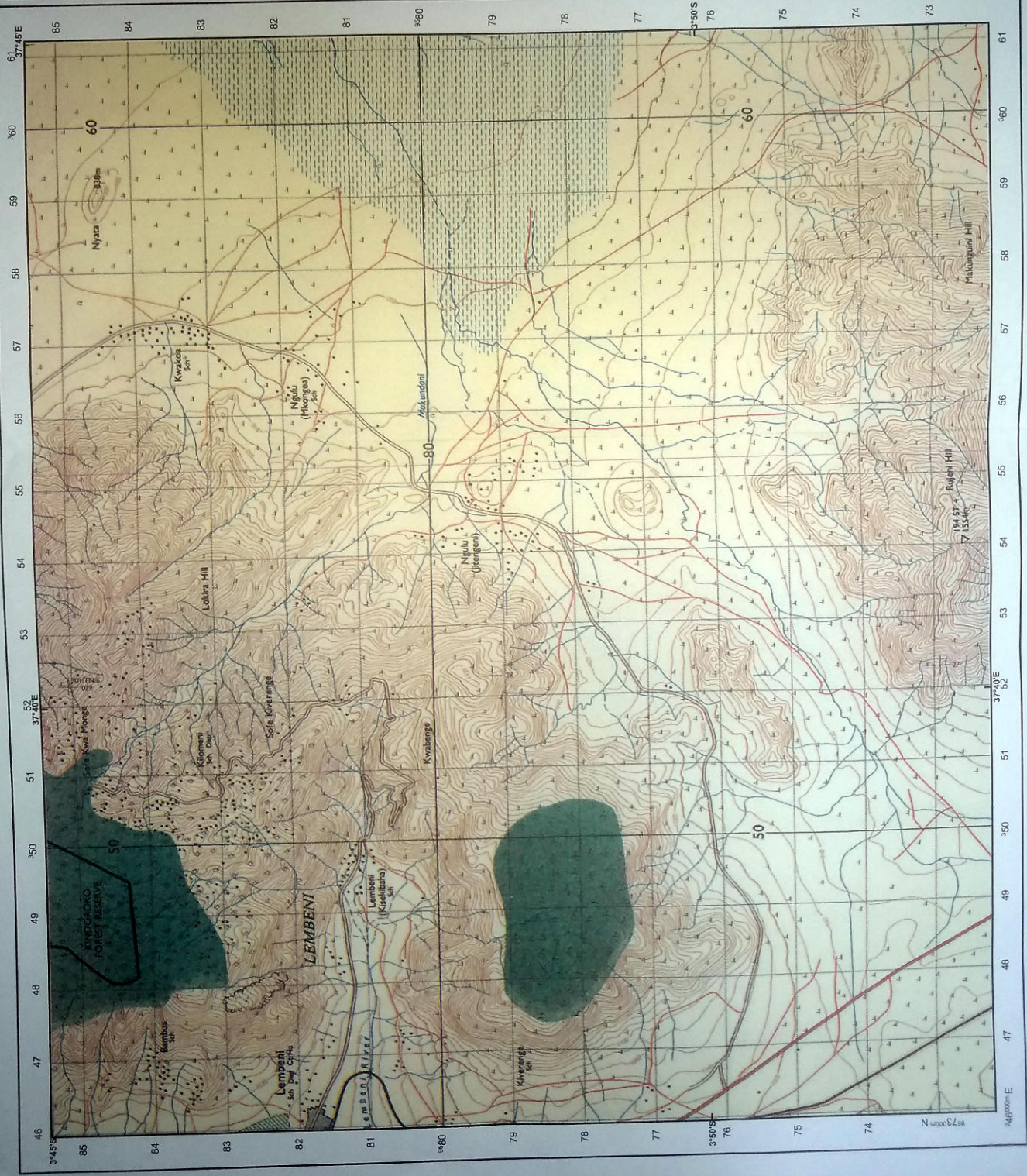
ABBREVIATIONS

CBP Cotton Buying Centre M Mission PS Police Station
 CH Church Kk Market RH Rest House
 CHC Club 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

0 0.5 1 2 Kilometers



Extract from Lambeni Sheet 73/3
 Series Y742, Edition 2-TSD/ Ministry of Lands,
 Government of the United Republic of Tanzania, 1989