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).

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.

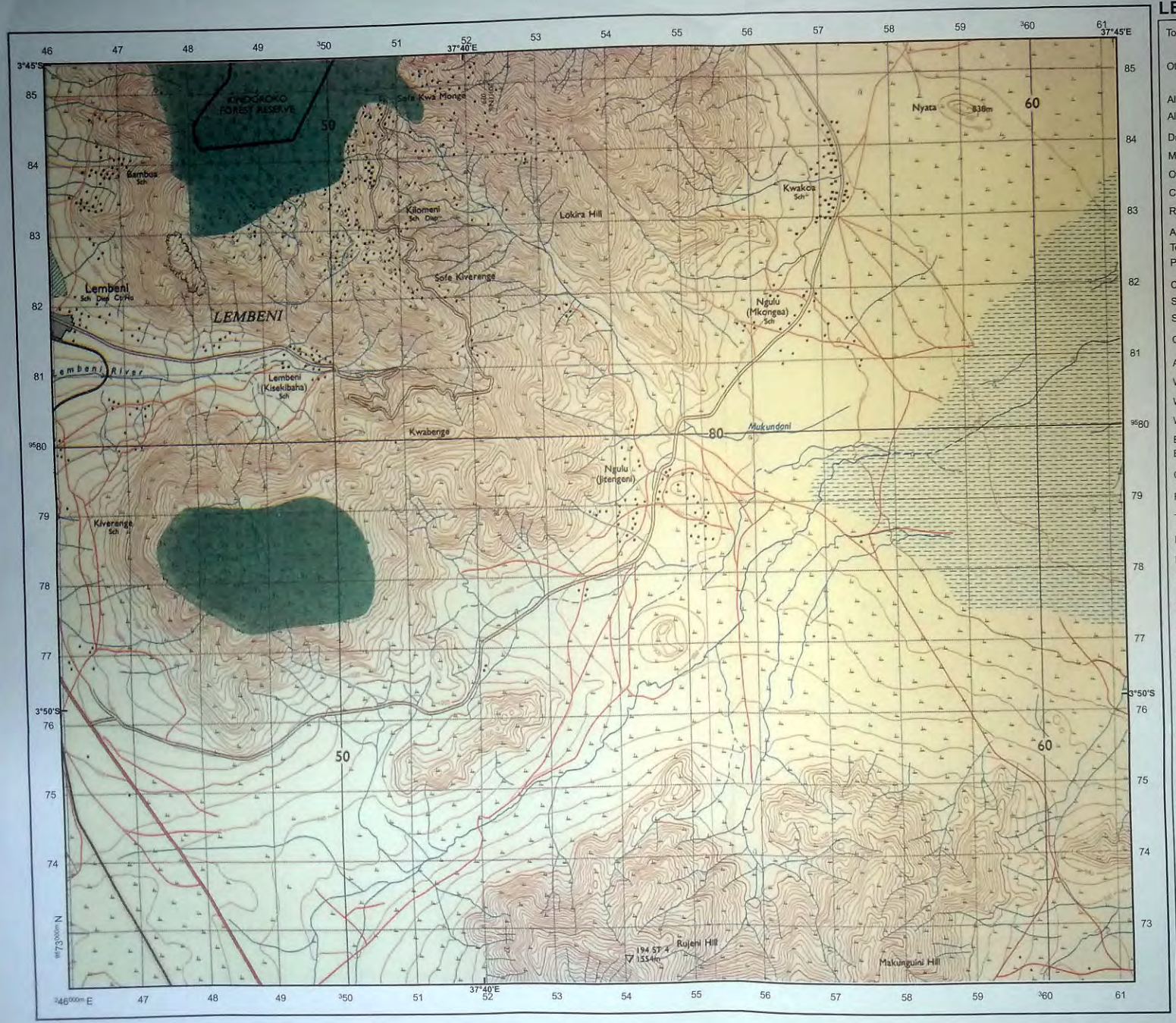
6. Give an account of the factors which influence the salinity of ocean water (provide six points).

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

Sheet 73/3

- 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
- TelephoneLine
- Power Line
- Crater
- Steep Slope
- Spot Heights (in metres)
- Contours (V.I 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
- 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
CtHo	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

1 0.5 0 1 2 Kilometers

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