

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, 05<sup>th</sup> May 2015 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 of LEMBENI (sheet 73/3) 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 one (1) and any other question from this section.

1. Study carefully the map extract of LEMBENI sheet 73/3 and then answer the following questions.
  - (a) Calculate the area covered by a seasonal swamp in  $\text{km}^2$ .
  - (b) Identify the grid reference of the location of the following features:
    - (i) Kiverenge School.
    - (ii) Lokira hill.
  - (c) Calculate the distance covered by loose surface road in kilometers from grid 509848 to 460819.
  - (d) By citing examples from the map, identify the types of vegetation of the area.
  - (e) Describe five usefulness of Topographical maps to a geographer.
2. Describe the types and characteristics of measures of central tendency.
3. (a) Explain five techniques for analyzing ground photograph.
  - (b) Briefly explain the following terms:
    - (i) Photo mosaic.
    - (ii) Stereoscope.
    - (iii) Camera station.
    - (iv) Principal point.
4. (a) Identify four problems associated with poorly formulated hypothesis.
  - (b) Describe six uses of research.
  - (c) Why is it crucial for a researcher to identify a site before the actual research? Give three reasons.

SECTION B (60 Marks)

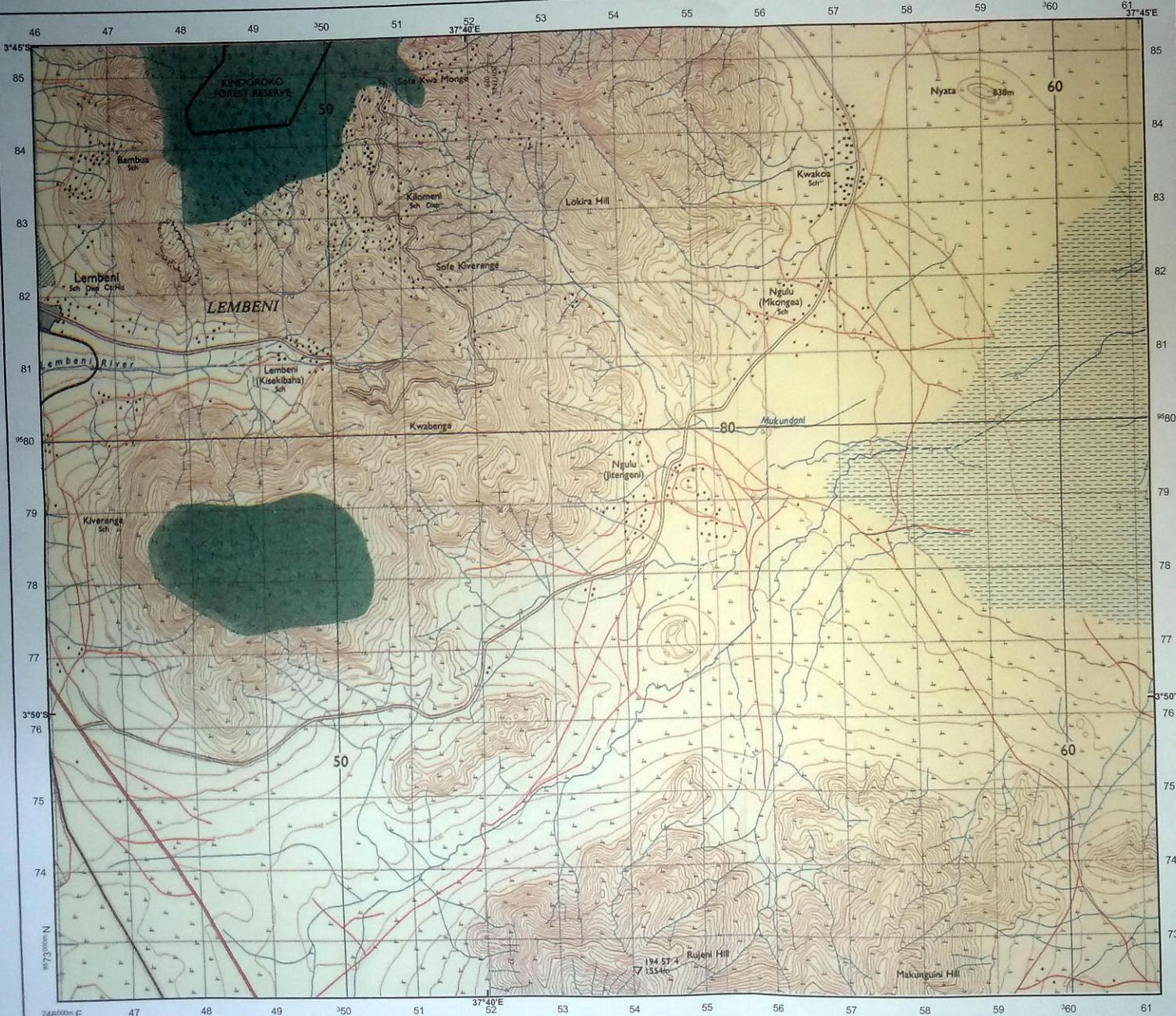
Answer three (3) questions from this section.

5. Describe five environmental problems facing the coastal areas and four measures to be taken so as to overcome them.
6. Explain eight human activities that degrade wetlands.
7. (a) Describe the following terms:
  - (i) Soil (PH). 2015
  - (ii) Soil Temperature.
  - (iii) Cation exchange in soil.
  - (iv) Soil catena.

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(b) Explain the importance of each item in (a) above.
8. With examples, examine eight values of rocks to human kind.
9. Describe the composition of the atmosphere and its functions to the universe.

# 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 )	
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
CHo	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