

**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**

**Thursday, 09<sup>th</sup> February 2012 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 one (1) and any other question from this section.

1. Study carefully the map extract of UYOLE sheet 245/3 then answer the questions that follow.

- What is the length of the road from grid 680070 to grid 596164?
- Measure the area of Poroto Ridge Forest Reserve in  $\text{km}^2$ .
- With vivid evidences from the map, suggest the main economic activities of the area.
- Describe the settlement pattern found in the area.
- Identify the features found in the following grid readings.

(i) 690110

(ii) 579145

(iii) 674063

(iv) 553123

(f) With evidences from the map, analyse the geological structure of the area.

2. Study carefully the following hypothetical data and answer the questions that follow.

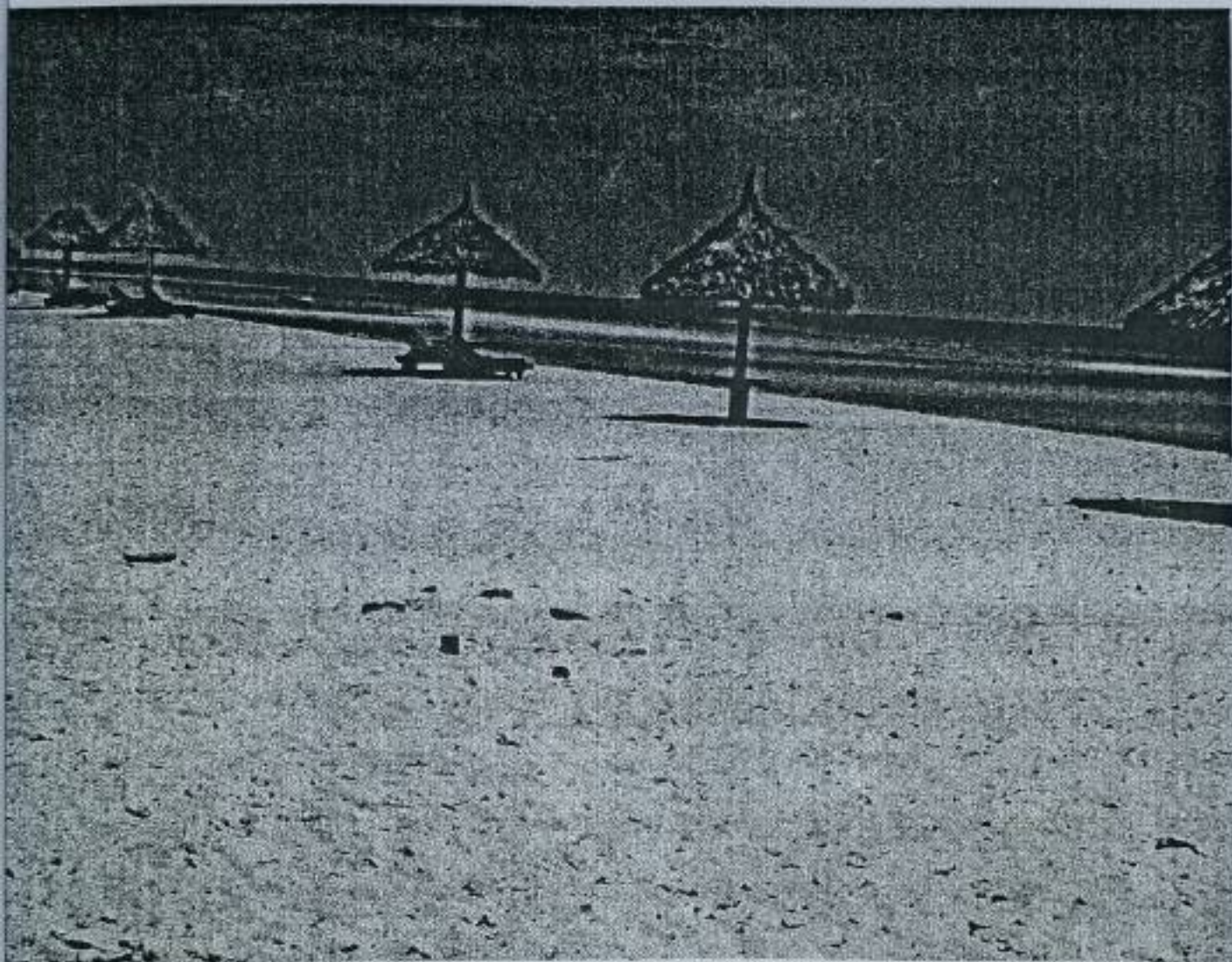
Cash crop production in Moshi district from 1972 to 1976 (in '000 tones)

CROP/YEAR	1972	1973	1974	1975	1976
Coffee	4000	3000	1500	3000	2500
Pyrethrum	1500	2000	1000	2500	1000
Sisal	1000	1500	500	2000	500

- Draw a comparative bar graph to represent the data given.
  - Describe the merits and demerits of comparative bar graph.
3. (a) Differentiate the Prismatic Compass Survey and Chain Survey.
- (b) What is Leveling? Explain four importance of leveling in a field work.



1. Study carefully the photograph given below and answer the questions that follow:



- (a) Name the type of the photograph.
- (b) Describe four characteristics of the type of the photograph named in part (a) above.
- (c) Identify the natural features seen on the photograph.
- (d) At what time was the photograph taken? Give two reasons.
- (e) With reasons, suggest the major economic activities taking place in the area.

**SECTION B (60 marks)**

Answer three (3) questions from this section.

5. Explain the various processes involved in soil formation.
6. With specific examples, enumerate nine importances of rivers in Africa.
7. Discuss the environmental impacts of green house effect and global warming.
8. Justify the sphericity of the planet earth with vivid evidences.
9. Classify igneous rocks according to the place of occurrence and the chemical composition.



55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70  
 33°35'E



Town or area with permanent buildings

Other populated area, Houses

All Weather Road Bound Surface Road A12 Number

All Weather Road Loose Surface

Dry Weather Road Culvert Bridge

Main Track (Motorable)

Other Track and Footpath

Cut Line

Railway, Siding, Station, Level Crossing Sta. LC

Airfield Runway

Telephone Line

Power Line

Crater

Steep Slope

Spot Heights (in metres) 204

Contours (V.I. 20m) Depression

Air Photo Principal Point with Film No. ACA/1 878-5

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

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	Mkt	Market	RH	Rest House
CHo	Court House	Mosq	Mosque	Sch	School
Diso	Dispensary	PO	Post Office	T	Telephone
Hosp	Hospital	PP	Police Post	Tg	Telegraph

Scale 1: 50,000

HEIGHTS IN METRES

Extract from Uyole Sheet 245/3  
 Series Y42, Edition 1-TSD/ Ministry of Lands  
 Government of the United Republic of Tanzania 1983