

**THE UNITED REPUBLIC OF TANZANIA  
NATIONAL EXAMINATIONS COUNCIL  
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION**

**013**

**GEOGRAPHY**

(For Both School and Private Candidates)

**Time: 3 Hours**

**Wednesday, 02<sup>nd</sup> November 2016 p.m.**

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**Instructions**

1. This paper consists of sections A, B, C and D.
2. Answer **all** questions in sections A, B and C and **one (1)** question from each part of section D.
3. Map extract of Hanang (Sheet 84/4) is provided.
4. Calculators and Cellular phones are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s)



## SECTION A (25 Marks)

Answer **all** questions in this section.

### PHYSICAL AND MATHEMATICAL GEOGRAPHY

1. For each of the items (i) - (x), choose the correct answer from among the given alternatives and write its letter in the answer booklet provided.

(i) The speed of the earth quake waves in the earth is changed at a line called  
A Mohorovic discontinuity      B Gutenberg discontinuity  
C Tectonics      D Tectonics  
E Isostatic.

(ii) Liverpool team scored a goal at 5.00 pm in England ( $15^{\circ}$  W). At what time the goal was scored in Dar es Salaam ( $45^{\circ}$  E)?  
A 1.00 p.m      B 7.00 p.m      C 9.45 p.m  
D 9.00 p.m      E 6.30 a.m.

(iii) The sun is overhead at tropic of Capricorn every year on  
A 22<sup>nd</sup> December      B 21<sup>st</sup> March      C 23<sup>rd</sup> September  
D 21<sup>st</sup> June      E 24<sup>th</sup> March.

(iv) Day reaches its maximum length on 21<sup>st</sup> June in  
A Southern hemisphere      B Northern Hemisphere      C Arctic Circle  
D Polar region      E Tropic of Capricorn.

(v) Which of the following planets have small celestial bodies in orbit around them?  
A Mercury, Jupiter and Uranus      B Pluto, Earth and Mars  
C Earth, Jupiter and Saturn      D Mercury, Venus and Earth  
E Venus, Earth and Saturn.

(vi) Deposition of soil materials removed from one horizon to another is called  
A Convex sided      B Concave sided  
C Gentle sided resistance      D Steep sided resistant  
E Steep sided non resistance.

(vii) The excessive strong wind blowing across an extensive ocean surface is called  
A Tsunami      B Ocean currents      C Storm surge  
D Hurricane      E Wind.

(viii) Rainfall that occurs when the air moves towards a hill or a mountain is called  
A cyclonic      B orographic      C convectional  
D showers      E typhoon.

(ix) Mountains can be classified on the basis of  
A their importance      B their surrounding      C their composition  
D their formation      E their height.



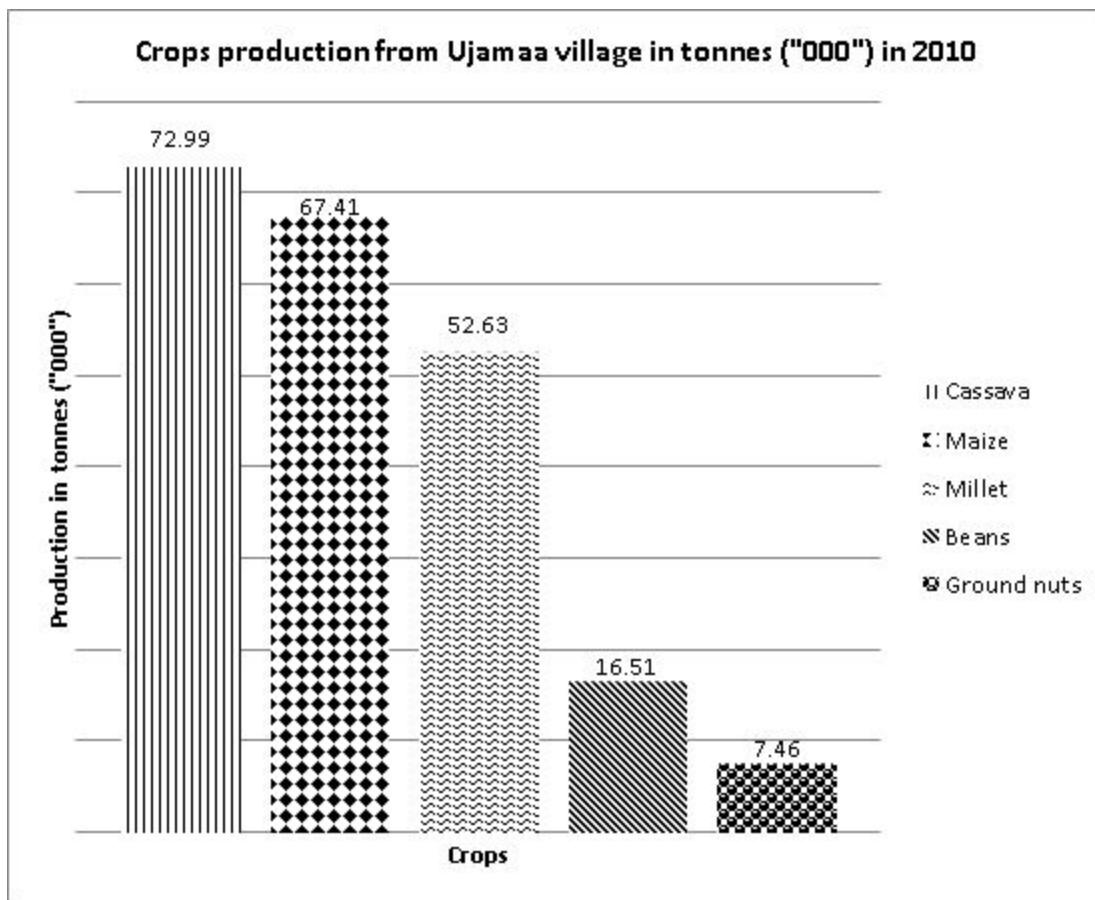
## SECTION B (27 Marks)

Answer **all** questions this section.

### APPLICATION OF STATISTICS, INTRODUCTION TO RESEARCH AND ELEMENTARY SURVEYING

4. (a) (i) Define simple divided circle.  
(ii) Give four merits of using simple divided circle.

(b) Carefully study the bar graph presented below showing production of crops in tonnes ("000") from Ujamaa village in 2010, and then answers the questions that follow.



(i) Draw the above bar graph to a simple divided circle by showing all the procedures.  
(ii) Give two possible factors for variation of crops production in the above bar graph provided.

5. (a) Point out four objectives of doing research in Tanzania.

(b) Describe the following terms as used in research:

- (i) Case study
- (ii) Feasibility study.
- (iii) Participatory observation.
- (iv) Research hypothesis.
- (v) Research problem.

6. (a) Explain two major forms of measurements in land surveying.

(b) (i) Define leveling.  
(ii) Explain four significances of leveling.

### **SECTION C (28 Marks)**

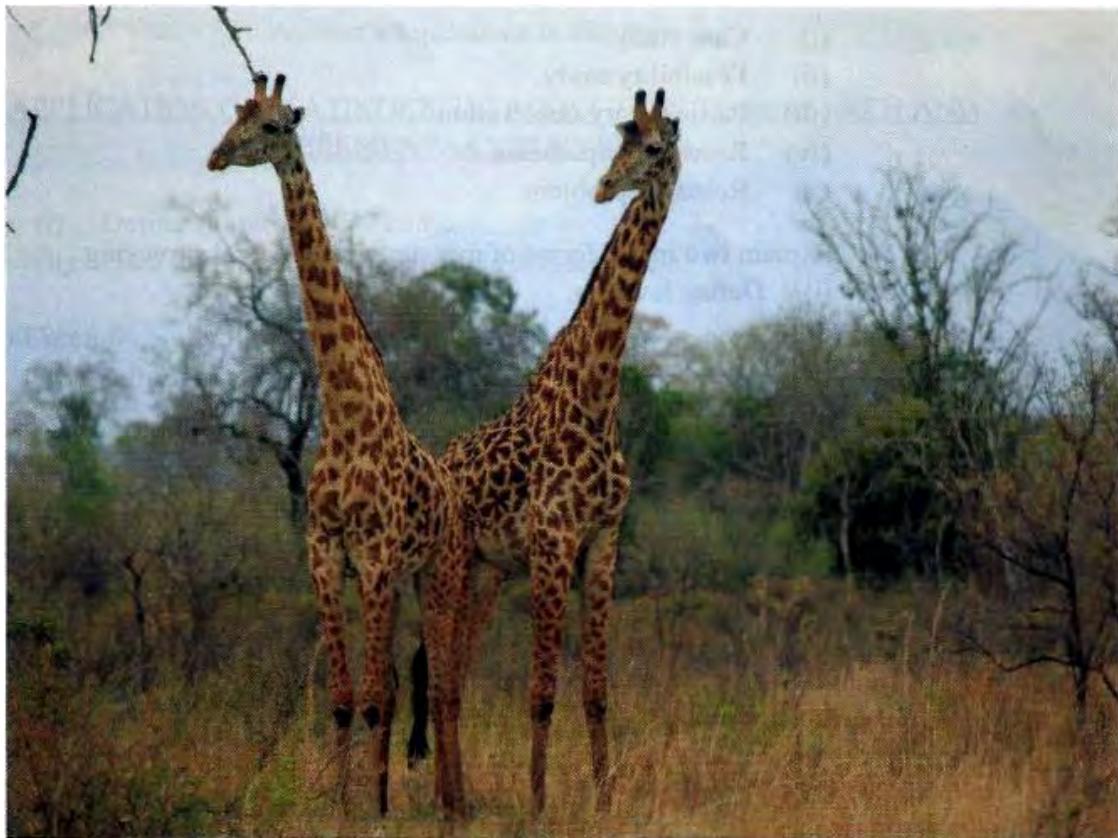
Answer **all** questions in this section.

#### **MAP READING AND PHOTOGRAPH INTERPRETATION**

7. Carefully study the map extract of Hanang (Sheet 84/4) provided and answer the following questions:

- (a) Express the map scale as a statement.
- (b) Find the bearing of grid reference 720220 to 680180.
- (c) Giving three evidences from the map, suggest the climate of the mapped area.
- (d) Suggest with evidence, five major economic activities which might take place in the area.
- (e) Give four supportive contents of a topographical map provided.
- (f) Mention three factors which affected the contents of the map given.

8. Study the photograph provided below and then answer the questions that follows:



- (a) Name the type of photograph.
- (b) Give three characteristics of the type of photograph in (a) above.
- (c) Explain four possible factors which may cause the loss of biodiversity in the photograph.
- (d) Give two economic importance of the area.
- (e) In three points, describe the importance of the vegetation shown in the area.

#### **SECTION D (20 Marks)**

Answer **one (1)** question from each part.

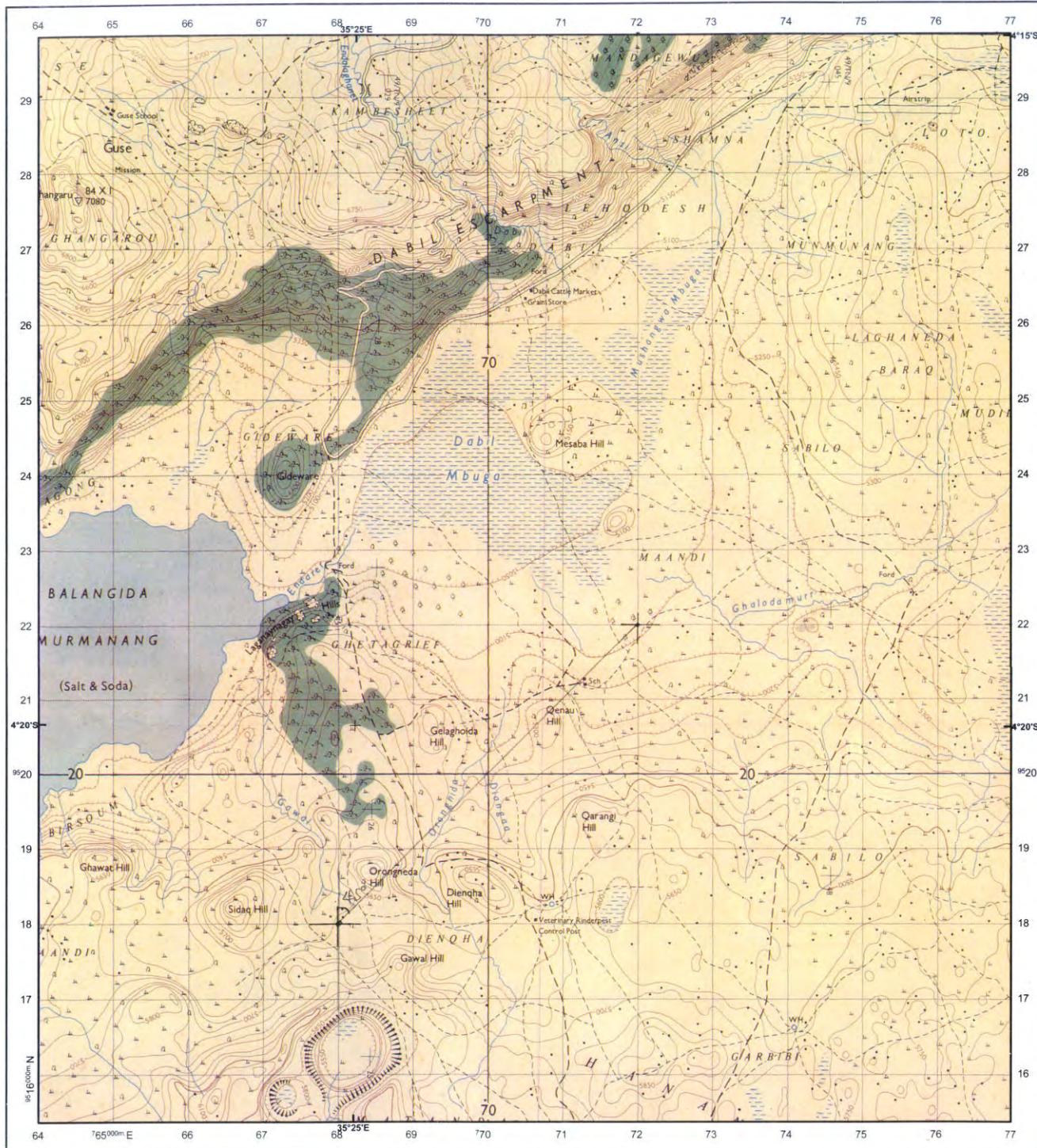
##### **PART 1: REGIONAL FOCAL STUDIES**

9. Evaluate six factors that determine exploitation of minerals in a country.

10. Explain six factors that hinder development of river transportation in Africa.

**PART II: ENVIRONMENTAL ISSUES, POPULATION AND SETTLEMENTS**

11. Describe five measures to control floods to the environment.
12. Analyse eight problems associated with growth of urban settlement.



Extract from Hanang, Sheet 84/4  
Series Y742, Edition 1-TSD/ Ministry of Lands.  
Government of the United Republic of Tanzania 1964

HEIGHTS IN FEET

Scale 1: 50,000

1 0.5 0 1 2 3 Kilometers

Town or area with permanent buildings	Telephone Line	Borehole, Water Hole, Well, Spring	ABBREVIATIONS
Other populated area, Houses	Telephone Line along Road	Bund, Major Fence, Hedge	Ch Church CBP Cotton Buying Post CtHo Court House DC District Commissioner Disp Dispensary Hosp Hospital HC Healthy Center M Mission Mkt Market Mosq Mosque MoW Ministry of Works PO Post Office PP Police Post PS Police Station RH Rest House Sch School T Telephone TG Telegraph
All Weather Road: Bound Surface	Road	Cliff	
All Weather Road: Loose Surface	A12 Number	Crater	
Main Track (Motorable)	Road	Steep Slope	
Other Track and Footpath	Culvert Bridge	Spot Height (in metres)	
Cut Line	Cut Line	Contours (VI 50ft)	
Railway, Siding, Station, Level Crossing	Railway Light	Air Photo Principal Point with Film No.	
Airfield Runway	Watercourse (Indefinite)	Watercourse, Waterfall, Rapids, Dams	
	Watercourse, (Wide), Waterfall Rapids	Watercourse, (Wide), Waterfall Rapids	
	Water Tank, Windpump	Plantation: (Coffee C. Palm) Sisal S. Sugar Su. Wattle W.	
		Woodland	
		Scrub	
		Coral	