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

## 013 GEOGRAPHY

(For School Candidates Only)

**Time: 3 Hours** **Tuesday, 4th October 2011 a.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 Malampaka (sheet 49/1) is provided.
4. Credit will be given for the use of relevant sketch maps and diagrams.
5. Calculators and cellular phones are **not** allowed in the examination room.
6. 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 beside the item number.

(i) One of the following features is a characteristic of coniferous forests:

A Trees are made up of hard wood
B Trees occur in stands
C Trees favour high temperatures
D Trees have broad leaves
E Trees grow in a few years.

(ii) The Inter-Tropical Convergence Zone (ITCZ) means

A a region of low pressure
B a region of doldrums
C a region of high pressure
D a sub-tropical high pressure belt
E a region with high speed winds.

(iii) Rias often provide natural harbour because they are

A found along the sub-merged coast.
B mainly found in Europe where the sea is shallow
C deep outlets of water along the coast
D not deep, ships can approach ports easily
E similar to lagoons but have shallow depths.

(iv) If the local time at town X (30°E 45°N) is 5.00 p.m. Monday, what will the time be at town Y (15°W 50°S)?

A 2 a.m. Monday
B 8 p.m. Monday
C 2 p.m. Monday
D 3 p.m. Monday
E 2 p.m. Sunday.

(v) The following are instruments used in chain and tape survey:

A Barometer, pegs, notebook, compass
B Tape measure, chain, cross staff, anemometer
C Chain, arrows, ranging poles, altimeter
D Arrows, ranging poles, pegs, chain
E Cross staff, notebook, chain and plane table.

(vi) When the river flows in its long profile it performs the following geological activities:

A Moves fast and can carry everything on the earth's surface
B Erodes, transports and deposits weathered materials
C Meanders and forms ox-bow lakes throughout the profile
D Does three functions such as abrasion, solution and attrition
E Acts as agent of weathering and erosion along the profile.

(vii) If the location of a point on a map is given by grid reference 365490, then

A 365 are Degrees
B 365 are Longitudes
C 490 are Northings
D 490 are Eastings
E 365 are Northings.

(viii) The following are the elements of weather:

A Soils, clouds, dew, humidity, rainfall
B Fog, barometer, humidity, pressure, air mass
C Clouds, sunshine, pressure, humidity, thermometer
D Pressure, clouds, sunshine, humidity, winds
E Pressure, humidity, soils, fog.

(ix) Which one of the following is not an outcome of the rotation of the earth on its own axis?

A Deflection of winds and ocean currents
B Difference of one hour between two meridians 15° apart
C Day and night
D Seasons of the year
E Sunrise and sunset.

(x) Landforms formed by vulcanicity can be divided into

A Many parts according to the nature of lava
B Sills, dykes, valleys and earthquakes only
C Volcanic mountains and sills only
D Extrusive and intrusive features
E Batholiths, dykes and volcano only.

2. Match the items in **List A** with the responses in **List B** by writing the letter of the correct response beside the item number.

| **List A** | **List B** |
|---|---|
| (i) Earth's zone which is rich in Nickel and iron. | A Soil texture |
| (ii) Erosional feature which is always formed in the young/upper stage of the river valley. | B Delta |
| (iii) Consists of a huge canopy which limits the undergrowth. | C Soil structure |
| (iv) The feel of coarseness or softness of the individual soil particles. | D Mantle |
| (v) A planet in the solar system with the longest orbit around the sun. | E Jupiter |
| | F Coniferous forest |
| | G Core |
| | H Pluto |
| | I Tropical rainforest |
| | J Interlocking spurs |

3. Soils may differ from one area but they share almost the same components. Describe the composition of the soil.

## SECTION B (27 Marks)

Answer **all** questions this section.

APPLICATION OF STATISTICS, INTRODUCTION TO RESEARCH AND ELEMENTARY SURVEYING

4. Data in the following table show the enrolment of Form One students at Mji Mpya Secondary School from 2006 to 2010. Carefully study them and answer the questions that follow.

| **Year** | **2006** | **2007** | **2008** | **2009** | **2010** |
|---|---|---|---|---|---|
| Number of students | 220 | 200 | 150 | 180 | 205 |

(a) Present the data by using simple bar graph.
(b) Comment on the trend of the enrolment.
(c) Explain the advantages of the method you have used in (a) above.

5. (a) What is hypothesis formulation?

(b) Explain four importance of hypothesis in research.

6. Form three students at Nguvumali secondary school would like to conduct a simple chain survey around their school compound and measure the height of the big gully near the headmaster's office. Describe the significance of survey in Tanzania.

## SECTION C (28 Marks)

Answer **all** questions in this section.

MAP READING AND PHOTOGRAPH INTERPRETATION

7. Carefully study the map extract of Malampaka (sheet 49/1) provided and answer the following questions:

(a) Calculate the area covered by seasonal swamps in $Km^2$.
(b) Explain the distribution of natural vegetation.
(c) How long in kilometres is river Ng'hulu from grid reference 625496 to grid reference 700522?
(d) Identify any three ways which have been used to represent relief in the area.
(e) Through giving evidence, explain any four economic activities that might be taking place in the area.

8. Carefully study the following photograph and answer the questions that follow.



(a) Such the type of the photograph by giving two reasons.

(b) Suggest any four economic activities that might be taking place in the area shown on the photograph.

(c) Comment on the nature of the settlement pattern as it is portrayed on the photograph.

(d) Explain the relief of the area.

## SECTION D (20 Marks)

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

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

9. (a) Distinguish between large scale and small scale farming.

   (b) What are the advantages of large scale over small scale farming?

10. "Oil as an economic resource has improved the living standards of the people of Libya". Discuss.

### **PART II:** ENVIRONMENTAL ISSUES, POPULATION AND SETTLEMENT

11. Explain the environmental factors which influence population distribution in Tanzania.

12. Suggest the measures to be taken in order to reduce the effects of global climate change at national level.

# MALAMPAKA  Sheet 49/1




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 ) 204

Contours ( V.I 20m ) Depression

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 | Mosqque | 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 Malampaka Sheet 49/1
Series Y742, Edition 2-TSD/ Ministry of Lands.
Government of the United Republic of Tanzania 1994