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

013 GEOGRAPHY

(For Both School and Private Candidates)

TIME: 3 Hours ***Thursday afternoon 11/10/2007***

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 Kigoma sheet 92/3 is provided.
4. Credit will be given for the use of relevant sketch maps and diagrams.
5. Cellular phones are **not** allowed in the examination room.
6. Electronic calculators are **not** allowed in the examination room.
7. 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) Clay as a parent rock can be classified as _____ rock.
- A pervious
- B porous
- C permiable
- D impermiable
- E permiable and impermiable

(ii) Circular depressions which are formed by glaciations in the highlands are
- A caldera
- B craters
- C cirques
- D hanging valleys
- E arêtes.

(iii) A drainage pattern, which looks like a tree with its branches is called
- A trellised
- B dendritic
- C radial
- D centripetal
- E annular.

(iv) The second layer of the earth's crust is known as
- A sial
- B sima
- C mantle
- D core
- E götenburg gap.

(v) Wadis, Bajada, Buttes and Mesa are examples of _____ features.
- A wind erosion and deposition
- B glacial erosion and deposition
- C wave erosion and deposition
- D desert water erosion and deposition
- E river erosion and deposition

(vi) Which one of the following combinations form chemical weathering?

A Organic acid and weak carbonic acid.
B Temperature change and frost action.
C Exfoliation and carbonation.
D Mud flow and land slides.
E Organic acid and temperature change.

(vii) A vertical feature formed out of the solidification of magma within the earth's crust is called

A phacolith
B sill
C dyke
D lopolith
E lacolith.

(viii) A coral reef with a circular elliptical shape enclosing a lagoon is called

A fringing reef
B barrier reef
C lagoon
D atoll
E planktons.

(ix) If the temperature at 500 metres where the tourists start climbing mount Kilimanjaro is 20°C. What will be the temperature when they reach 2,000 metres above sea level?

A 10°C.
B 5°C.
C 11°C.
D 12°C.
E 15°C.

(x) The process in which a river renews its erosion in its valley is called

A regime
B rejuvenation
C capture
D cavitation
E abrasion.

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

List A	List B
(i) The galaxy from which the solar system containing the planet earth is found. (ii) A large area on the earth's surface with uniform characteristics of temperature, rainfall and vegetation. (iii) A thin blanket of air surrounding the earth. (iv) A process that course the wrinkling of the earth's surface rocks. (v) The destruction of rocks by temperature change.	A Atmosphere B Ozone layer C Compressional force D Tensional force E Milky way F Andomedal spire G Weathering H Erosion I Natural region J Equatorial climate

3. Explain the formation of barchans and seif dunes.

SECTION B (27 Marks)

Answer **all** questions this section.

STATISTICS, RESEARCH TECHNIQUES AND SIMPLE SURVEYING AND LEVELLING

4. State the differences between the following types of data:

   (a) Discrete and continuous.

   (b) Single and grouped.

5. Giving examples, explain how you can conduct a field research.

6. (a) Name the **three (3)** types of topographical surveying.

   (b) What is the importance of chain survey?

SECTION C (28 Marks)

Answer **all** questions in this section.

MAP READING AND PHOTOGRAPHY INTERPRETATION

7. Study the map extract of Kigoma sheet 92/3 and answer the following questions.

   (a) Outline the importance of scale in a map.

   (b) Measure the distance of the railway line.

   (c) Calculate the area of Lake Tanganyika.

   (d) What factors have influenced the location of Kigoma town?

   (e) Explain the main socio-economic activities carried out in the area.

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



   (a) Name the type of the photograph.

   (b) State the scale of the photograph.

   (c) Explain the main physical features found in the area.

   (d) State the main activities of the area.

SECTION D (20 Marks)

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

PART 1

REGIONAL FOCAL STUDIES

9. Explain the main characteristics of nomadic pastoralism in East Africa and suggest the main ways of improving pastoralism in the region.

10. Explain the main factors which have influenced the ship industry in Japan.

PART II

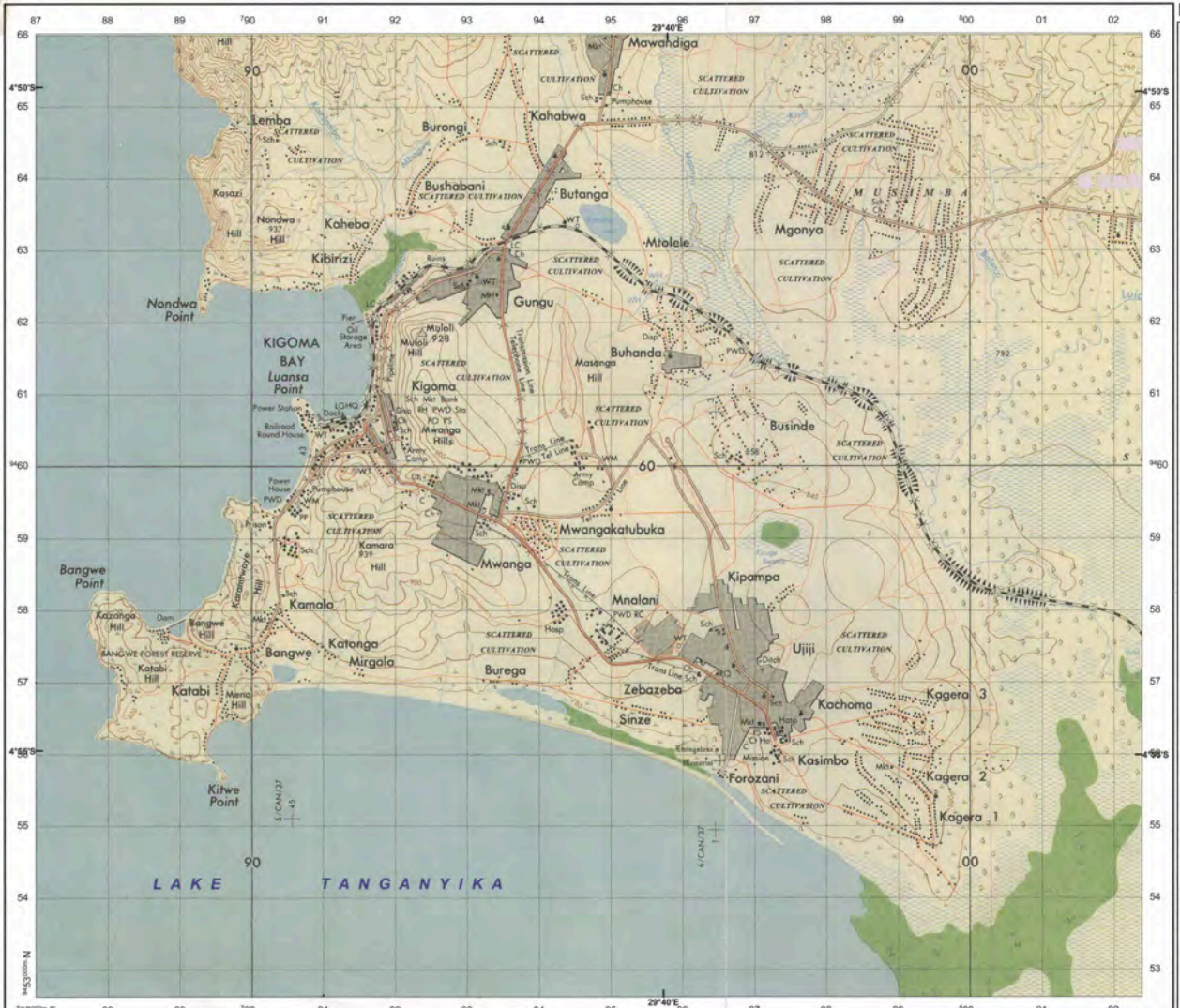
ENVIRONMENTAL ISSUES, POPULATION AND SETTLEMENT

11. (a) Define the term ecosystem.

    (b) What are the major causes of the loss of biodiversity?

12. (a) What are the main characteristics of human population?

    (b) State the main factors that influence population distribution.



KIGOMA

Sheet 92/3

- 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	Mosqgue	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 Kigoma Sheet 92/3
Series Y742, Edition 1-TSD/ Ministry of Lands.
Government of the United Republic of Tanzania 1978