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,* October 13, 2005 p.m.**

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 Tabora sheet 118/2 is provided.
4. Credit will be given for the use of relevant sketch maps and diagrams.
5. Electronic calculators are **not** allowed in the examination room.
6. Cellular phones are **not** allowed in the examination room.
7. Write your **Examination Number** on every page of your answer booklet(s)

SECTION A (25 marks)

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) The earth's shape is a flattened sphere which is called
A ekman spiral B geoid C globe D galtax E spherical.

(ii) _____ occurs when three heavenly bodies are in one line and one of them being the source of light.
A Solar system B Equinox C Eclipse D Solstice E Solar radiation.

(iii) The Secretary General of the UN addressed the world from New York (75°W 42°N) at 7:30 p.m. Tuesday. At what time and day will people in Dar Es Salaam (45°E 06°S) hear the same speech?
A 3:30 a.m. Wednesday B 12:30 p.m. Tuesday C 11:30 p.m. Wednesday
D 3:30 p.m. Wednesday E 8:30 p.m. Tuesday.

(iv) The temperature at Moshi 950 metres is 24°C. What will the temperature be at Uhuru Peak 5,895 metres above sea level?
A 32°C B –8°C C –24°C D 18°C E 0°C

(v) When two forces act away from each laterally, they are called
A lateral forces B orogenic forces C vertical forces
D compressional forces E tensional forces.

(vi) A delta which is found in a lake is called _____ delta.
A marine B lacustrine C alluvial D arcute E bird's foot

(vii) A natural outflow of water from the surface rock is known as
A oasis B stream C artesian well D spring E aquifer.

(viii) When several rivers drain into a depression they form a drainage system called _____ drainage.
A radial B superimposed C trellised
D centripetal E dendritic

(ix) A soluble rock with jointed structure resembling a wall is called
A granite B grike C basalt D limestone E clint.

(x) The Barysphere of the earth is made up of
A silica and magnesia
B silica and alumina
C iron and nickel
D iron and zinc
E iron and alumina.

2. Match the phrases 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)	Natural embarkments built up by a stream along the edges of its channel.	A Bearing B Delta
(ii)	It is the group of soils which occurs mostly in the moist cool temperate climate.	C Alignment D Levees
(iii)	The direction of a place in degrees from another place.	E Dolines
(iv)	A shallow depression in a karst region	F Bore hole
(v)	A detailed study on a small scale of weather elements within a natural or man-made environment.	G Micro climate H Macro climate I Podzol J Mable

3. State **three (3)** mechanisms developed by plants to adapt themselves to drought conditions.

SECTION B (27 marks)

STATISTICS, RESEARCH TECHNIQUES AND SIMPLE SURVEYING AND LEVELLING

4. (a) What is a line graph?

   (b) List down the main types of line graphs.

   (c) Construct a line graph to show the trend of coffee production in Tanzania from 1970 - 1974 as shown in the table below:

YEAR	**1970**	**1971**	**1972**	**1973**	**1974**
COFFEE PRODUCTION (000 TONS)	2050	2600	1800	1950	3000

5. (a) Define the term sampling as used in field research.

   (b) Outline the main types of sampling as used in field research.

   (c) What problems are likely to be encountered in field research?

6. (a) What is levelling?

   (b) What would you do when preparing a chain survey?

   (c) What would you do to overcome obstacles such as a pond in a chain survey?

SECTION C (28 marks)

MAP READING AND PHOTOGRAPHY INTERPRETATION

7. Study the map extract of Tabora sheet 118/2 and answer the following questions:

   (a) List down physical and man-made features found in the following grid references:
   (i) 885465 (ii) 866475 (iii) 815393
   (iv) 796430 (v) 832430

   (b) Measure the distance of the railway line from grid reference 740447 to 833360.

   (c) List down the main factors that have influenced vegetation distribution in the area.

   (d) What are the main functions of Tabora town?

   (e) Giving examples, account for the main activities found in the area.

8. Study carefully the photograph provided and answer the following questions:

   (a) Explain the traditional methods used for clearing the vegetation as seen in the photograph.

   (b) State the type of vegetation found in the area.

   (c) What are the impacts over the environment of this activity at the local and national level?

   (d) Determine the weather condition at the time the photograph was taken.



SECTION D (20 Marks)

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

PART 1

REGIONAL FOCAL STUDIES

9. Explain the factors that influence the exploitation of mineral resources.

10. (a) State the problems of beef cattle production in Tanzania.

    (b) In what ways can beef production be improved?

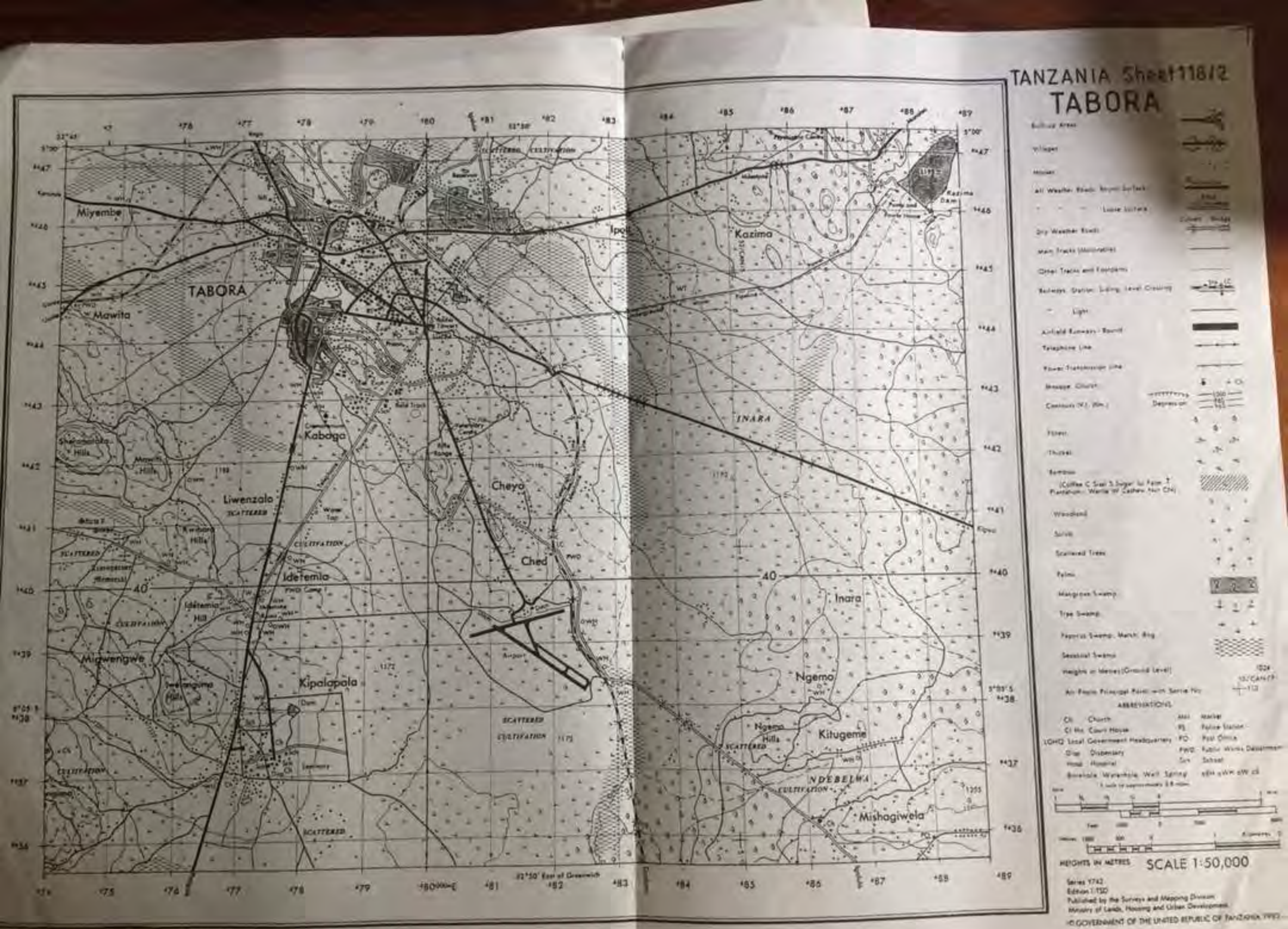
PART II

ENVIRONMENTAL ISSUES, POPULATION AND DEVELOPMENT

11. Explain environmental hazards.

12. (a) What are the aims of introducing family planning programmes?

    (b) State the main problems facing family planning programmes.


TANZANIA Sheet 118/2
TABORA
Miyembe
TABORA
Mawita
Kabaga
Liwenzalo
Idetemia
Migwengwe
Kipalapala
Cheyo
Ched
Ipoli
Kazima
INARA
Inara
Ngemo
Kitugeme
NDEBELWA
Mishagiwela
SCATTERED CULTIVATION
Airport
Kazima Dam
Kigwa
Sheromatoka Hills
Mawita Hills
Kwibara Hills
Idetemia Hill
Swelanguma Hills
Ngemo Hills
Bullrush Areas
Villages
Houses
All Weather Roads: Round Surface
Loose Surface
Culvert
Bridge
Dry Weather Roads
Main Tracks (Motorable)
Other Tracks and Footpaths
Railways: Station, Siding, Level Crossing
Light
Airfield Runways - Round
Telephone Line
Power Transmission Line
Message Church
Contours (V.I. Km.)
Depression
Forest
Thicket
Bamboo
(Coffee C Seal S Sugar Sc Palm T Plantation - Wattle W Cashew Nut CN)
Woodland
Scrub
Scattered Trees
Palms
Mangrove Swamp
Tree Swamp
Papyrus Swamp, Marsh, Bog
Seasonal Swamp
Heights in Metres (Ground Level)
Air Photo Principal Point with Series No.
ABBREVIATIONS
Ch Church
Cl Ho Court House
LGHQ Local Government Headquarters
Disp Dispensary
Hosp Hospital
Borehole Waterhole Well Spring
Mkt Market
PS Police Station
PO Post Office
PWD Public Works Department
Sch School
HEIGHTS IN METRES
SCALE 1:50,000
Series Y742
Edition 1:TSD
Published by the Surveys and Mapping Division
Ministry of Lands, Housing and Urban Development
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