

**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)

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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 galax 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

- (i) Natural embankments built up by a stream along the edges of its channel.
- (ii) It is the group of soils which occurs mostly in the moist cool temperate climate.
- (iii) The direction of a place in degrees from another place.
- (iv) A shallow depression in a karst region
- (v) A detailed study on a small scale of weather elements within a natural or man-made environment.

List B

- A Bearing
- B Delta
- C Alignment
- D Levees
- E Dolines
- F Bore hole
- 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.

