

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

013

GEOGRAPHY
(For Private Candidates Only)

Monday, 04th November 2013 a.m.

Time: 3 Hours

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 Kasamwa (sheet 32/4) 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) The line at which the day is gained or lost is known as

- A International Date Line
- B Longitude
- C Equator
- D Latitude
- E Tropic of Capricorn

(ii) A crescent shaped feature with horns pointing down-wind is

- A Bajada B Zeugen C Loess
- D Barchan E Seif.

(iii) Which of the following represent some part of the ocean floor?

- A Basin, deep, lagoon and plateau.
- B Trench, deep, basin and plateau.
- C Plateau, basin, lagoon and ridge.
- D Ridge, deep, basin and cave.
- E Plateau, deep, trench and stack.

(iv) The instrument which is used to measure atmospheric pressure is known as

- A Anemometer
- B Hygrometer
- C Six's Thermometer
- D Barometer
- E Stevenson Screen.

(v) How much time does the earth take to rotate on its own axis?

- A 7 days. B 365 days. C 24 hours.
- D 4 minutes. E 12 hours.

(vi) Mikindani at sea level has a temperature of 32°C. What is the temperature of Mufindi 1500m above sea level?

- A 19°C.
- B 9°C.
- C 0.6°C.
- D 17°C.
- E 23°C.

- (vii) Which of the following is **not** a characteristic feature of a youthful valley?
- A Deep and narrow valley.
 - B Valley with steep gradient.
 - C Interlocking spurs.
 - D Water Fall and rapids.
 - E Flood plains.

- (viii) The drainage pattern developed in a region of a uniform rock structure is known as

- A trellis
- B dendritic
- C radial
- D superimposed
- E rejuvenated.

- (ix) A type of delta which develops in a mouth of submerged river is called

- A lacustrine
- B digitate
- C estuarine
- D arcuate
- E bird's foot.

- (x) Which of the following planet is much far from the sun?

- A Venus.
- B Mercury.
- C Earth.
- D Pluto.
- E Neptune.

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) A knife edged depression separating two cirques.	A Kame
(ii) A steep-sided rock basin, semi-circular in plan, cut into valley heads and mountain sides.	B Truncated Spur
(iii) Occurs when a glacier which have retreated the floor of the main river lies below the floor of the tributary rivers.	C Hanging Valley
(iv) Deposited materials from a terminal moraine which are carried down valley by melt water from glaciers.	D U-Shaped Valley
(v) An irregular mound or hill of sand and gravels formed at the margin of stagnant ice.	E Arête
	F Pyramidal Peak
	G Outwash Plain
	H Medial
	I Corrie
	J Snow Field

3. (a) Define soil erosion and explain two types of soil erosion caused by water.
 (b) Describe five farming practices which lead to soil erosion.

SECTION B (27 Marks)

Answer **all** questions in this section.

APPLICATION OF STATISTICS, INTRODUCTION TO RESEARCH AND ELEMENTARY SURVEYING

4. (a) Briefly explain the following types of data:
- (i) Individual data
 - (ii) Grouped data
 - (iii) Discrete data
 - (iv) Continuous data
- (b) Explain the importance of studying statistics.
5. Explain seven uses of research findings.
6. Describe eight important things a surveyor has to prepare before deciding to conduct a survey.

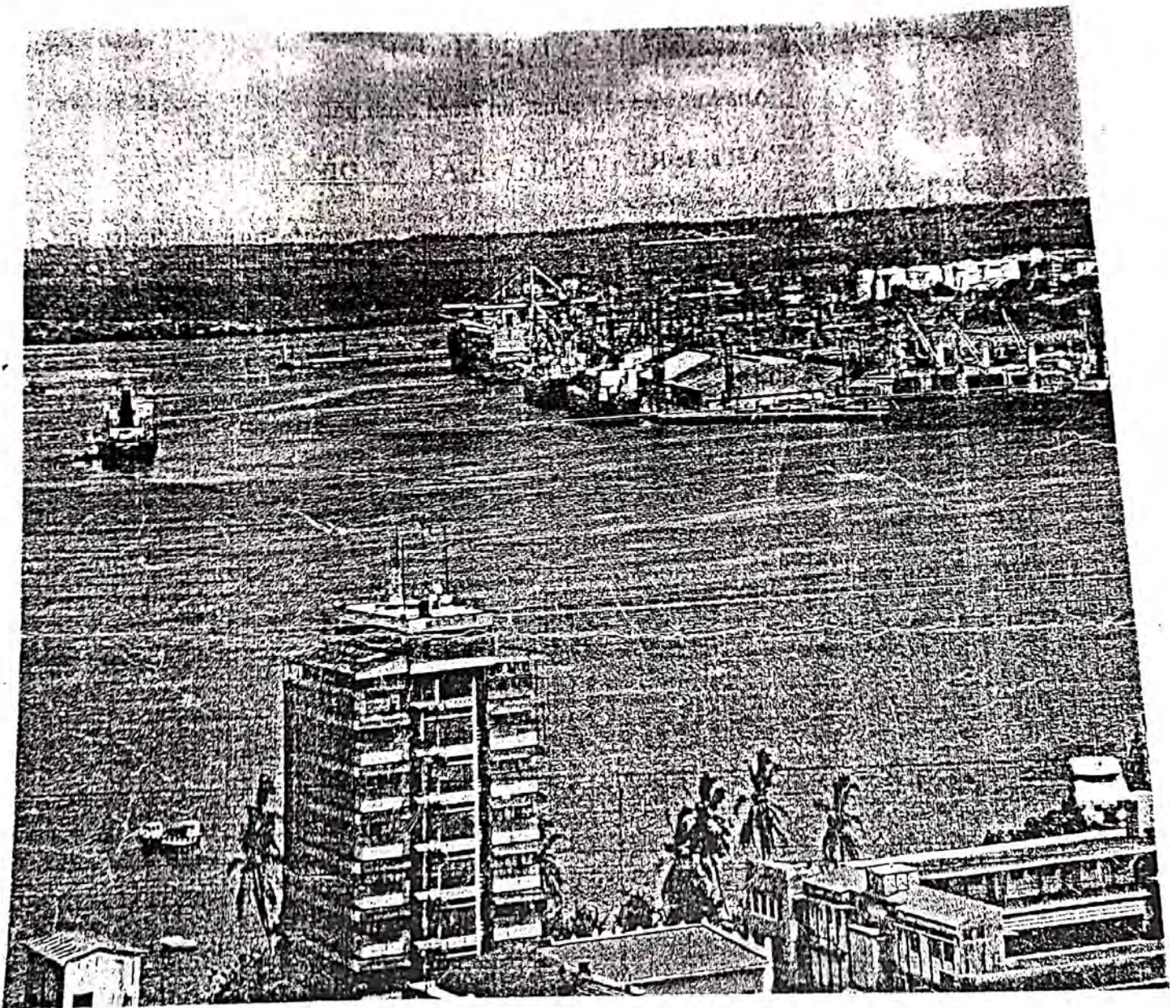
SECTION C (28 Marks)

Answer **all** questions in this section.

MAP READING AND PHOTOGRAPH INTERPRETATION

7. Study the printed map extract of Kasamwa (sheet 32/4), then answer the following questions:
- (a) Calculate the area covered by Nyaruhwa swamp in km^2 by using grid square method.
 - (b) Describe the vegetation distribution of the area.
 - (c) Identify three ways used to represent relief of the area.
 - (d) Name the physical features found on the map.
 - (e) Giving two evidence from the map, state the climatic condition of the area.
 - (f) With vivid evidence from the map, identify three economic activities taking place in the area.

8. Study the photograph given below and then answer the questions that follow:



- (a) Identify the type of the photograph. Give two reasons to your answer.
- (b) Name the natural feature seen on the photograph.
- (c) Giving vivid evidence from the photograph, name three uses of the feature named in 8 (b) above.
- (d) Name the major environmental problem encountering the natural feature named in 8 (b).

- (c) What are the solutions to the problems encountering the natural feature seen on the photograph?

SECTION D (20 Marks)

Answer one (1) question from each part.

PART 1: REGIONAL FOCAL STUDIES

9. Examine eight problems affecting the development of manufacturing industry in Tanzania.
10. Explain the importance of the river basin development projects. Give eight points.

PART II: ENVIRONMENTAL ISSUES, POPULATION AND SETTLEMENT

11. Describe eight push factors which lead to rural-urban migration.
12. (a) Explain four causes of desertification.
(b) Analyse four ways of controlling desertification.



Extract from Kasamwa Sheet 32/4
Series Y742, Edition 2-TSD/ Ministry of Lands,
Government of the United Republic of Tanzania 1994

HEIGHTS IN METRES

Scale 1: 50,000

1 0.5 0 1 2 3 Kilometres

Town or area with permanent buildings	Telephone Line	Borehole, Water Hole, Well, Spring	Scattered Trees	Ch Church
Other populated area, Houses	Telephone Line along Road	Bund, Major Fence, Hedge	Palm Trees	CBP Cotton Buying Post
All Weather Road:- Bound Surface	Power Line	Cliff	Mangroove Swamp	ChHo Court House
All Weather Road:- Loose Surface	Crater	Forest	Tree Swamp	DC District Commissioner
Main Track (Motorable)	Steep Slope	Thicket	Papyrus Swamp, Marsh, Boge	Disp Dispensary
Other Track and Footpath	Spot Height (in metres)	Bamboo	Seasonal Swamp	Hosp Hospital
Cut Line	Contours (V.I. 20m).....Depression	Riverrine Trees	Sand or Mud Inland.....Coastal	HC Healthy Center
Railway Siding, Station, Level Crossing	Air Photo Principal Point with Film No.	Plantation:- (Coffee C. Palm) Sisal S, Sugar Su, Wattle W	Outcrop Rock	M Mission
Railway Light	Watercourse, Waterfall, Rapids, Dams	Woodland	Coral	Mkt Market
Airfield Runway	Watercourse (Indefinite)	Scrub		Mosq Mosque
	Water Tank, Windpump			MoW Ministry of Works
				PO Post Office
				PP Police Post
				PS Police Station
				RH Rest House
				Sch School
				T Telephone
				TG Telegraph