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

013 GEOGRAPHY

(For Both School and Private Candidates)

Time: 3 Hours **Wednesday, 06th November 2019 p.m.**

Instructions

1. This paper consists of sections A, B and C with a total of **ten (10)** questions.
2. Answer **all** questions in sections A and B and any **two (2)** questions from section C.
3. Map extract of Mkomazi (Sheet 109/1) is provided.
4. Programmable calculators, cellular phones and any unauthorized materials are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s)

SECTION A (15 Marks)

Answer **all** questions in this section.

1. For each of the items (i) - (x), choose the correct answer from among the given alternatives and write its letter besides the item number in the answer booklet provided.

(i) Which of the following layers of the earth's interior is made up of sima and sial?

A Biosphere B Hydrosphere C Atmosphere
D Lithosphere E Barysphere.

(ii) Senegal National team scored a goal at 2:00 pm in Senegal (150° W). At what time at Burundi (30° E) the goal was scored?

A 2:00 am B 10:00 am C 4:00 am
D 10:00 pm E 12:00 am.

(iii) Mitomingi was wondering the way large amount of soil and rock materials were sliding downward towards the steep slope. What geological processes were occurring in that area?

A Weathering and erosion B Deposition and transportation
C Weathering and denudation D Mass wasting and transportation
E Erosion and transportation

(iv) You are asked to help a Form Two student who failed to identify the types of forests found in the area with low temperatures. What type of forest will you suggest among the following?

A Tropical rain forest B Coniferous forest
C Equatorial forest D Deciduous forest
E Mediterranean forest

(v) Taha used to see a group of herdsmen moving seasonally with their cattle between lowlands and highlands in search of water and pasture. What is the general term for such movement?

A Pastoralism B Transhumance C Nomadism
D Semi-nomadic E Zero grazing

(vi) What is the social-economic advantage of reserved forests to societies?

A Tourism B Lumbering C Mining
D Forestry E Agriculture

(vii) After learning different types of soil texture, students were asked to identify the best type of soil which can be mixed with cement for building a house. What type of soil will be picked by the students who understood the lesson?

A Sandy B Silt C Alkaline soil
D Loam E Clay

(viii) Jane was living in Dar es Salaam since 1990 and works as a secretary in Prime Minister's Office. In January 2019 she was transferred to a new office in Dodoma region. Identify the type of Jane's movement.

A migrant B emigration C immigrant
D emigrant E immigration.

(ix) Suppose you want to carry out a field study on atmospheric conditions suitable for growth of crops cultivated on a farm within your village. What are the best components of weather to be considered?

A Rainfall and soil B Moisture and sunshine
C Rainfall and clouds cover D Temperature and rainfall
E Humidity and rainfall

(x) Mr. Limfuata had a chance to visit South-East Asia for a study tour and he experienced seasonal reverse of wind in the area. Identify the type of climate in the area.

A Tropical maritime B Tropical monsoon
C Tropical continental D Equatorial monsoon
E Equatorial

2. Match the descriptions of karst region features in **Column A** with the corresponding feature in **Column B** by writing the letter of the corresponding answer beside the item number in the answer booklet provided.

Column A	**Column B**
(i) The irregular gullies found on the limestone surface which separate limestone region.	A Doline
(ii) The vertical holes in the limestone ground through which rain water or river may disappear into the ground beneath.	B Clint
(iii) The round hollow on the surface of a limestone region.	C Swallow hole
(iv) The wide depression with a fairly flat floor in a limestone surface.	D Polje
(v) The largest surface depression found in limestone region formed due to action of solution.	E Uvala
	F Grike
	G Gorge

SECTION B (55 Marks)

Answer **all** questions this section.

3. Study the map extract of Mkomazi (Sheet 109/1) and then answer the following questions:

   (a) By using the given RF scale, measure the distance of river Pangani in kilometres from grid reference 910771 to 910826.
   (b) Describe relief of the area.
   (c) With reasons, identify two types of rocks found in the map.
   (d) Name the major way used to show the height of the land in the mapped area.
   (e) Using a vertical scale of 1cm to represent 50m, draw an annotated cross section from grid reference 960820 to 910880 and mark Ruvu river basin and the main trucks.

4. Josi and Losi are selling school bags. They always record data of their retailing in a notebook. Their friend Kosi is working in a supermarket as a storekeeper and she told them about the simplest way of presenting data for a single variable against time. Kosi showed her friends the following table showing data of school bags received from 2001 to 2007.

Year	2001	2002	2003	2004	2005	2006	2007
School Bags Received	90	100	40	50	20	70	120

   (a) Name the two simplest ways of presenting the data.
   (b) Explain five advantages of presenting the data by simple methods mentioned in (a).
   (c) Present the given statistical information by using simple graph.

5. There was land conflict between villagers of Shangu and the Headmaster of Shangu Secondary School. The village Chairperson decided to invite a survey team who used chain/tape survey to determine the boundaries of the school compound.

   (a) Describe five instruments they used in surveying the school compound.
   (b) Explain three procedures they followed during the survey process.

6. Lugano is studying in boarding school at Kigoma but his home place is in Kilosa District where he used to observe several conflicts between farmers and pastoralists. In his second week in school, he heard through the Radio that, a farmer was killed by the pastoralists in his home village. He decided to conduct research about the conflict.

   (a) Suggest the statement of the problem for his research.
   (b) Identify two sources of that research problem.
   (c) Elaborate four possible research tools he would use during data collection.
   (d) Explain three significance of conducting that research.

7. Carefully study the following photograph and answer the questions that follow:



(a) What is the name of the dominant trees?
(b) Name two land uses that might be suitable in the area.
(c) Suggest three possible regions in Tanzania where the photograph might have been taken.
(d) Describe relief features shown in the photograph.
(e) Briefly explain the formation of the relief feature found in the background.

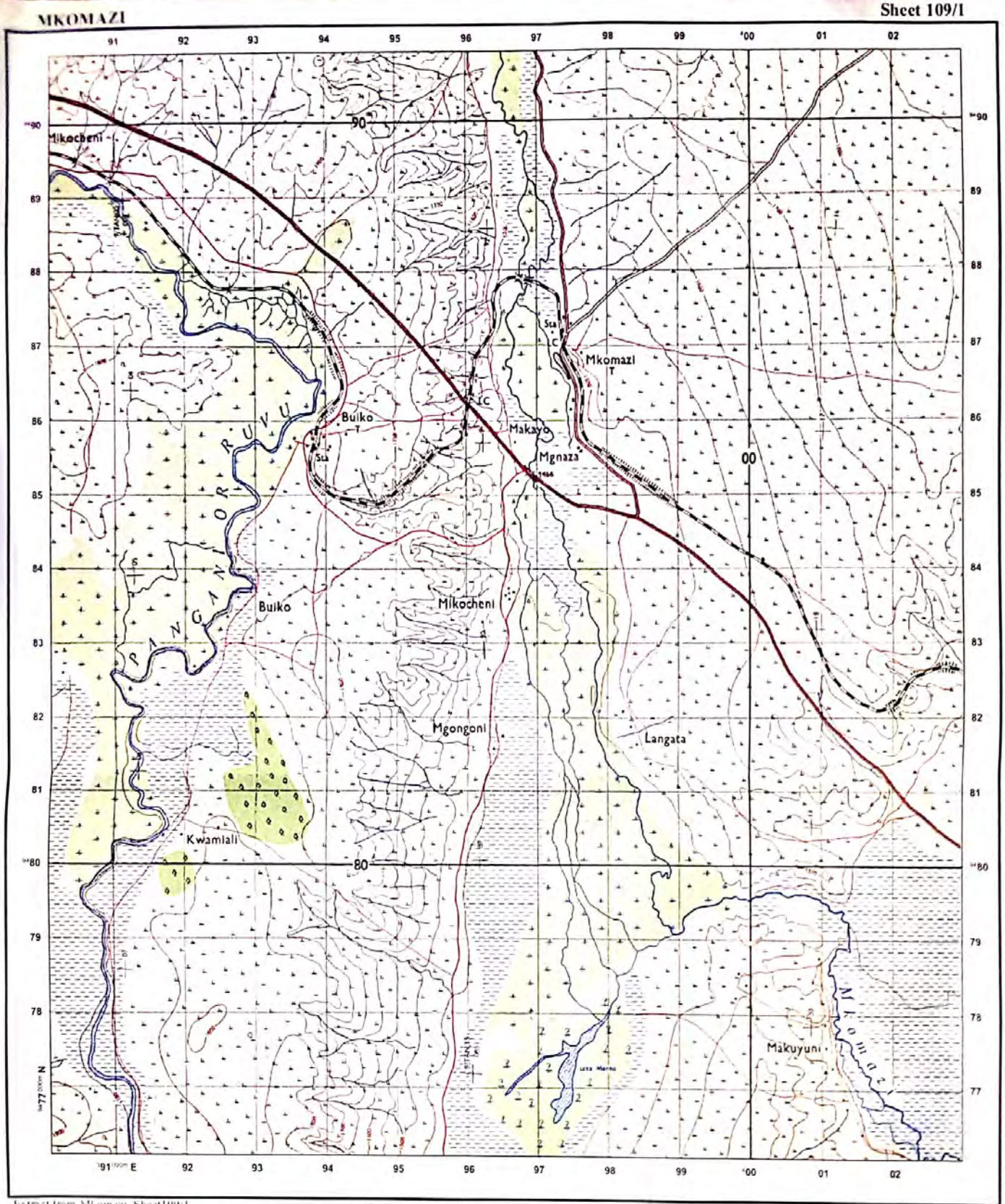
SECTION C (30 Marks)

Answer **two (2)** questions from this section.

8. Rose was talking with her grandmother who believes that the earth's shape is flat like a table. By using six evidences, describe how Rose will prove to her grandmother that the earth is spherical.

9. "Despite of the fact that, Hydro-Electric Power (HEP) is environmentally friendly energy, it still has damaging effects on the environment". With six points, justify this statement.

10. Explain six factors which hinder rapid development of manufacturing industries in Tanzania.



Extract from Mkomazi Sheet 109/1
Series Y 742, Edition 1 - TSD, Ministry of Lands
Government of the United Republic of Tanzania, 1974

HEIGHTS IN METRES

Scale 1: 50,000

1 0.5 0 1 2 3 Kilometers

Town or area with Permanent Buidings
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 Siting Station Level Crossing
Railway Light

Steep Slope
Contours (V.I 20m) Depression
Air Photo Principal Point with Film No
Water Course, Waterfall Rapids, Dams
Water Course, (Wide), Waterfall Rapids
Watercourse (Indefinite)
Borehole, WaterHole, Well, Spring
Bund, Major Fence, Hedge
Cliff

Forest
Tree Swamp
Papyrus Swamp, Marsh, Boge
Riverine Trees
Plantation (Coffee C, Palm Sisal S, Sugar Su Wattle W
Woodland
Scrub
Scattered Trees
Palm Trees
Seasonal Swamp



ABBREVIATIONS

CBP	Central Buying Point
Ch	Church
CtHo	Court House
DC	District Commissioner
Disp	Dispensary
Hosp	Hospital
HC	Health Center
M	Mission
Mkt	Market
Mosq	Mosque
MoW	Ministry of Works
PO	Post Office
PP	Police Post
PS	Police Station
RH	Rest House
Sch	School
T	Telephone
TG	Telegraph