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 **Year: 2022**

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 **two (2)** questions from section C.
3. Section A carries **fifteen (15)** marks, section B **fifty five (55)** marks and section C carries **thirty (30)** marks.
4. Map extract of Ilonga (Sheet 265/2) is provided.
5. Programmable calculators, cellular phones and any unauthorised materials are **not** allowed in the examination room.
6. Write your **Examination Number** on every page of your answer booklet(s).

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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(s) provided.

(i) Which set of elements of weather are mainly used to classify climate of an area?

A Humidity and precipitation
B Temperature and rainfall
C Temperature and sun shine
D Temperature and humidity
E Wind and temperature

(ii) The local time at Greenwich Meridian is 10:30 am on Thursday. What will be the time at longitude 180^0E?

A 10:30 pm on Thursday
B 10:30 am on Wednesday
C 12:30 am on Wednesday
D 11:00 am on Friday
E 12:00 pm on Thursday

(iii) Which one is a major environmental problem facing most of African cities?

A Loss of biodiversity
B Soil erosion
C Air pollution
D Deforestation
E Overgrazing

(iv) Suppose you were walking along river Rufiji and you had a chance to observe the drainage pattern with uniform rock structure and rock resistance, suggest the name of that drainage pattern.

A Dendritic
B Trellis
C Radial
D Parallel
E Centripetal

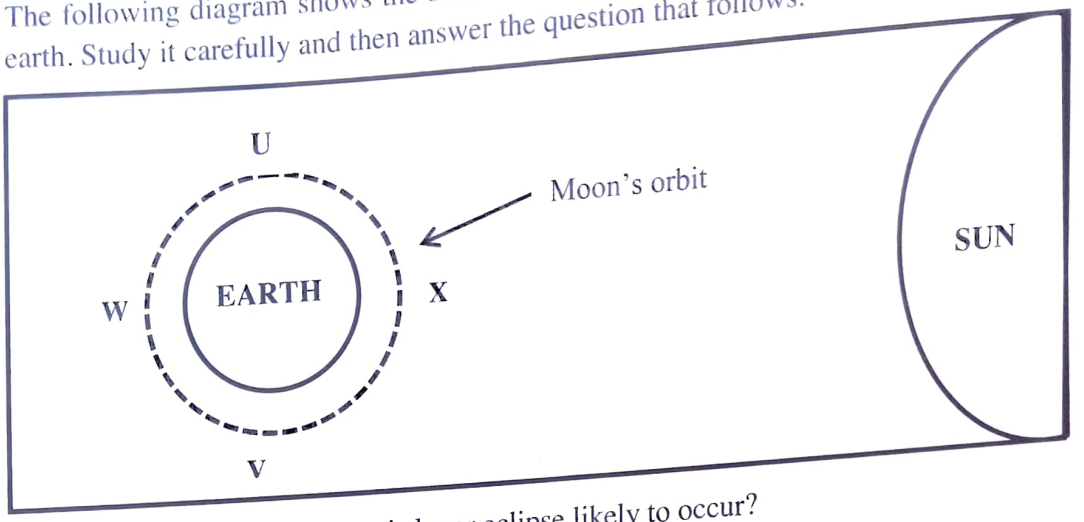
(v) Suppose you are living in an urban center and you are interested in keeping livestock. What type of livestock keeping would be suitable for you?

A Sedentary
B Transhumance
C Ranching
D Pastoralism
E Nomadism

(vi) Which earth crust processes caused the formation of Uluguru mountains?

A Prolonged denudation
B Wrinkling of the earth's crust
C Sinking of the earth's crust
D Outflow and spread of lava
E Faulting of the earth's crust

(vii) The following diagram shows the sun, the earth and the orbit of the moon around the earth. Study it carefully and then answer the question that follows:



At which position of the moon is lunar eclipse likely to occur?

A V B W C U and V
D U E X

(viii) Husna and his young brother Hamid like to play with wet soil around their home. They enjoy observing quick percolation of water in the soil. What type of soil were they playing with?

A Clay B Silt C Loam
D Sand E Silt and clay

(ix) Earthquakes and volcanoes have a clearly identifiable pattern over the earth's surface. Which area is not prone to earth quakes and volcanoes?

A Coast of Alaska B East African rift valley
C Andes mountain D Himalayan belt
E Sahara desert

(x) Which location of mineral occurrence is best for shaft method of mining?

A Horizontal to the earth's surface B Very close to the earth's surface
C In a river valley D On the earth's surface
E Lay deep into the earth's surface

2. Match the type of climate in **List A** with their corresponding latitudes North and South of the Equator in **List B** by writing the letter of the correct answer beside the item number in the answer booklet provided.

List A	List B
(i) Mediterranean climate.	A 45^0 and 90^0.
(ii) Tropical climate.	B 10^0 and 30^0.
(iii) Polar climate.	C 30^0 and 50^0.
(iv) Equatorial climate.	D 00^0 and 05^0.
(v) Hot desert climate.	E 30^0 and 45^0.
	F 05^0 and 20^0.
	G 20^0 and 30^0.

SECTION B (55 Marks)

Answer **all** questions in this section.

3. Study carefully the map extract of Ilonga (Sheet 265/2) and then answer the following questions:
   (a) Citing evidence from the map, suggest three possible economic activities carried out in the mapped area.
   (b) Describe the vegetation distribution of the area.
   (c) Describe the drainage pattern found in the map.
   (d) Give the name of the water course found in the South Eastern part of the mapped area.
   (e) Give the name of the main man made linear physical feature found in the map.
   (f) Calculate the area of the whole map in km^2.

4. (a) Giving four points, explain the importance of using divergent bar graph.
   (b) What are the two challenges to be noted when using divergent bar graph?

5. (a) Explain the functions of the following survey tools:
   (i) Arrow
   (ii) Pegs
   (iii) Ranging rod
   (iv) Beacon
   (b) Outline three survey measuring tools.

6. (a) A group of students were sitting at a high steep face of a rock along the sea coast of the Indian Ocean. They observed the breaking movements of ocean waves in which ocean water is thrown up the beach and retuned under gravity down the shore.
   (i) What are the two wave processes the students observed?
   (ii) Mention four erosion processes involved in that ocean wave.

(b) Identify three factors that affect wave erosion.

(c) Draw a well labeled diagram to show the following features resulting from wave erosion:

(i) Blow hole.

(ii) Cave.

7. Study carefully the following photograph and then answer the questions that follows:



(a) With two evidences, name the type of photograph.

(b) With evidence, suggest the time when the photograph was taken.

(c) Giving evidences, suggest two possible economic activities which takes place in the area.

(d) What are the two natural features which are seen in the photograph?

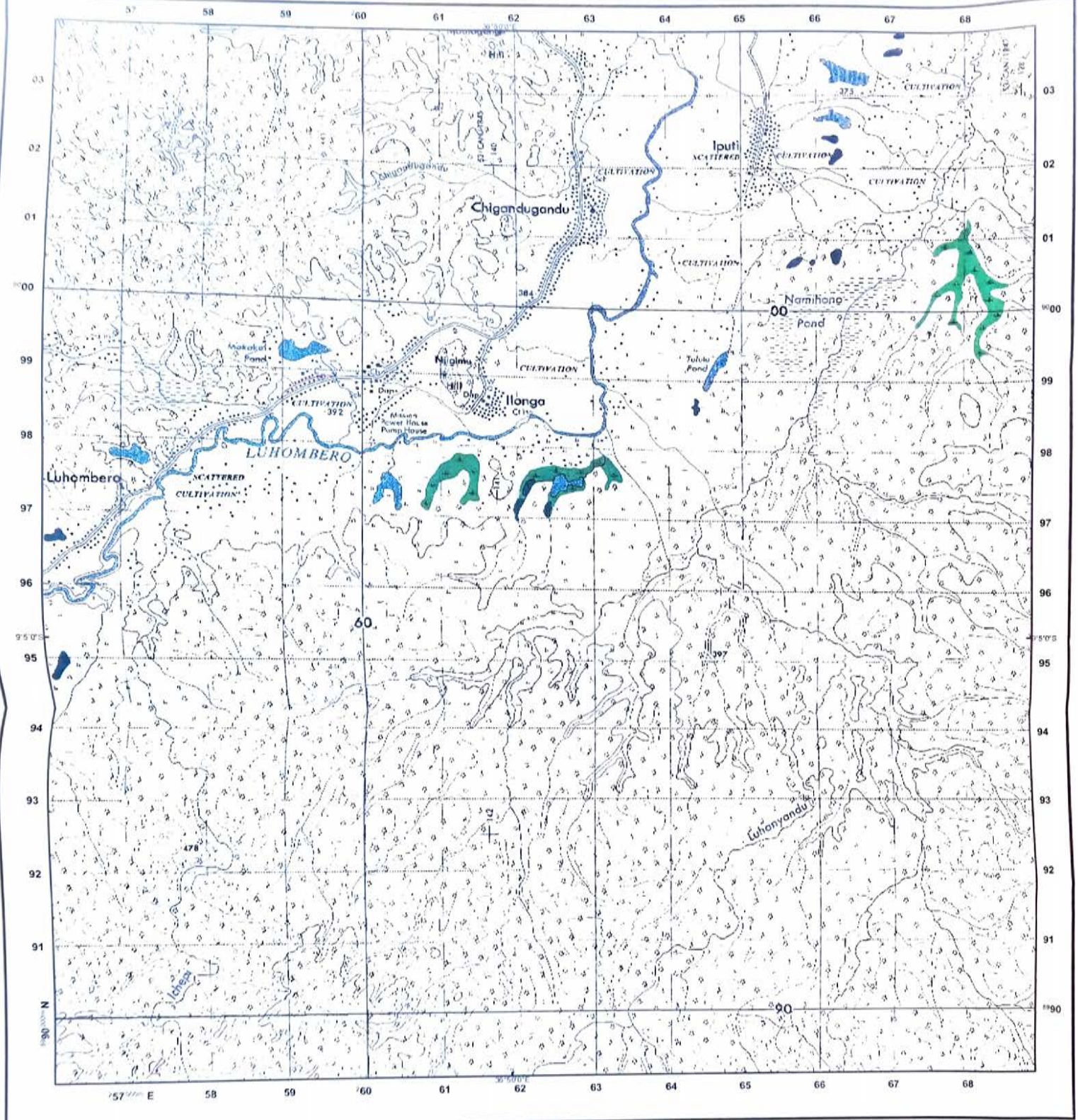
SECTION C (30 Marks)

Answer **two** questions from this section.

8. Suppose you have been asked to conduct a research on poor performance of students in Mathematics subject at your school, explain ten stages you would follow.

9. Mr. Tumbile wants to establish a plastic processing industry in Visitu town. Analyse six factors he should consider before locating the industry.

10. "Tanzania has realized that improving transport is inevitable for sustainable socio-economic development." Justify this quotation by giving seven points.



Extract from Ilonga, Sheet 265/2
Series Y 742, Edition 1 - TSD, Ministry of Lands,
Government of the United Republic of Tanzania, 1987

HEIGHTS IN METRES

Scale 1: 50,000

1 0.5 0 1 2 3 Kilometers

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, 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
Water course (Indefinite)
Borehole, Water Hole
Well, Spring
Bund, Major Fence, Hedge
Cliff

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



ABBREVIATIONS

CBP	Cotton Buying Pos
Ch	Church
CtHo	Court House
DC	District Commissioner
Disp	Dispensary
HC	Health Center
Hosp	Hospital
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