

**PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
JOIN THE REVOLUTION PROGRAM
FORM FOUR SERIES No. 08
GEOGRAPHY**

013

TIME: 3Hours

Year 2024

Instructions

1. This paper consists of sections A, B and C with total of **11** questions.
2. Answer all questions in section A and B and two (2) questions from section C.
3. Section A carries sixteen (16) marks, section B fifty four (54) marks and section C carries thirty (30) marks.
4. Map extract of **SENGEREMA (sheet 53/4)** is provided
5. Non-programmable calculators and mathematical table are allowed materials in the Examination Room.
6. Write your Examination Number on every page of your answer booklet(s)

SECTION A (16 marks)

Answer **ALL** questions in this section

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

i. The teacher told his students that latitude circumference varies depending on its position. Which of the following latitude has the largest circumference?

- A. Equator line
- B. Tropic of cancer
- C. Tropic of capricorn
- D. Arctic circle
- E. Antarctic circle

ii. Madam Angela went Amboni caves for visiting limestone area. She observed the feature formed when a stalactite joins with a stalagmite to form one continuous structure. The name of the feature observed by Madam Angela is called.

- A. Cave
- B. Polje
- C. Rock pillar
- D. Gorges
- E. Dolines

iii. The form three students at Bungu High School, debating that “carbon dioxide in the atmosphere dissolves rain water to form weak carbonic acid which acts on calcareous rocks such as limestone and chalk. What will be the best process to describe the concept

- A. Oxidation
- B. Carbonation
- C. Hydration
- D. Solution
- E. Hydrolysis

iv. Suppose you have been asked to help a form four student who has failed to arrange numerical facts in ascending order so that you make critical analysis of the central value that can be used to determine the mid value of a data set, which statistical measure are you going to determine?

- A. Mode
- B. Median
- C. Mean
- D. Variance
- E. Standard deviation

v. A local government in the Kilimanjaro region plans to construct a new community center. Consulting data from the nearest weather station helps them to

- A. Choose the most scenic location for the center with stunning views
- B. Design the building with features resistant to strong winds and heavy rainfall
- C. Secure finding from international organizations for climate initiatives.

- D. Estimate the number of people expected to use the center based on population data
- E. None of them above

vi. Travelling through the Serengeti National Park in August you notice vast savannah grasslands with scattered trees. This landscape reflects:-

- A. The abundance of freshwater sources and fertile soil supporting dense vegetation.
- B. The impact of deforestation and human activities on Tanzania's natural environment
- C. The adaptation of plants and animals to survive in a dry season with limited rainfall.
- D. Presence of heavy rainfall and high temperature throughout the year.
- E. The presence of consistent year-round rainfall creating a tropical rainforest ecosystem.

vii. A public health official is concerned about the spread of mosquito-borne diseases like malaria. This could be linked to

- A. Improved sanitation and hygiene practices in rural communities.
- B. Increased use of pesticides and insecticides to control mosquito populations
- C. Overfishing by local communities and commercial fishing companies.
- D. Changes temperature and rainfall patterns creating favourable conditions for mosquitoes
- E. Increased migration of people from rural to urban areas.

viii. A cartographer creating a detailed map of Tanzania needs to distinguish between the country's major lakes and other water bodies. Which feature provides the clearest indication of size and depth?

- A. The shape and outline of the water body on the map
- B. The colour used to represent the water body on the map
- C. The presence or absence of surrounding islands
- D. The label and legend indicating the water body's name and depth
- E. None of them above.

ix. The International Date Line (IDL) is an imaginary line on Earth that marks the boundary between two calendar days. Crossing this line:-

- A. Requires adjusting your watch by one hour, depending on the direction
- B. Automatically changes the date on your calendar regardless of the time.
- C. Only affects countries located near the Pacific Ocean
- D. Has no practical impact on travel or communication
- E. All of the above

x. During a school project on environmental conservation in Tanzania, you're researching protected areas and wildlife corridors. The most likely, type of map you would use for this project is a

- A. Political map showing the boundaries of different district and regions
- B. Topographical map illustrating the elevation and physical features of the land

- C. Road map focusing on highways and transportation networks across the country.
- D. Thematic map highlighting specific environmental features and conservation areas.
- E. Detailed street maps of all major towns and villages on the island.

2. Match the description of wave deposited features in **column A** with correct corresponding name of features in **column B**.

Column A	Column B
(i) It is a narrow ridge of sand and shingle formed in the sea	A. Stump
(ii) It is occurred when a bar joins an island to the main land	B. Spit
(iii) It is a narrow tongue of sand and shingles joined to the land and projecting to the sea	C. Bay
(iv) It is the accumulation of sand, pebbles, shingle and mud on shore along the coast.	D. Beach
(v) Deposition of mud in the base of the ocean	E. Bar
(vi) It is a shallow enclosed amount of water which is usually caused deposition of materials at shallow waters of the ocean	F. Lagoon
	G. Tombolo
	H. Cliff
	I. Mud-flat

SECTION B: (54 Marks).

Answer ALL questions in this section

3. Study carefully the map extract of **SENGEREMA (sheet 53/4)** provided and answer the following questions.

(a) Mr. Warioba is a best Geography teacher he taught his student about the steps to consider when calculating area of Irregular shape. As one his best student identify steps to consider when you need to calculate the area of Luchil bay.

(b) One of the method used to represent relief features on a given map is contouring method. As a cartographer briefly explain five(5) properties of contour as used for relief representation.

(c) Find the bearing and distance of a grid reference 490090 from 512060

4. Bihusi a form four student at Kicheko High School was presenting on the class the construction of a simple divided circle; during her presentation she mixed the procedures of presenting the data. As a form four student assist her by

(a) Outline steps for constructing the graph

(b) Point out three strengths and three setbacks of the constructed graph.

(c) Consider the given data below for world production of Cocoa by countries in 2000.

Country	Production
Brazil	1,936,297
Ghana	4,042,988
Nigeria	2,308,066
Ecuador	805,499
Cameroon	1,270,211
Ivory Coast	1,796,883
Others	33,304,430

Draw a simple divided circle.

5. Aziza from Songesha Secondary School was asked by her teacher to conduct a research on the reasons for poverty in Kitwale village in Dodoma region where majority villagers did not know how to read and write.

(a) Suggest any three research tools used by Aziza

(b) Suggest the best title for his research

(c) What are four (4) significance of conducting pre-survey reconnaissance.

6.(a) Form three students at Nguvumali Secondary School would like to conduct a simple chain survey around their school compound and measure the height of the big gully near the head master's office. Describe the four(4) significance of survey in Tanzania

(b) Why are sketches in field notebooks not generally drawn to scale?

(c) You have been appointed to become a group leader in conducting a chain survey. Clearly explain procedures you would follow so as to complete your work successfully.

7. The vertical photographs show only top view also their objects are seen very small which become difficult for interpretation, sometimes because it has only two dimensions instead of three dimensions, as much altitude increases, the height dimension not exist. Describe six (6) techniques for interpreting vertical photographs.

8. Form three students travelled with their geography teacher for study tour, while on the way they were surprised to see a horse shape like structure.

(a) Mention the common name of the feature.

(b) With diagrams describe the formation of feature named in (a)

SECTION C (30 Marks)

Answer **ONLY TWO** questions in this section.

9. "Villagers from Magambo village harvested large amount of crops from their farms in 2023, this has been contributed by high soil fertility in their farms". In six (6) points; analyse determinants of the situation contributed to such harvest from their farms.

10. Plastics wastes pose the biggest threat to water bodies in the world, particularly in the oceans. The United Nations Environment Programme warns that by 2050, we will have more plastics in the oceans than fish if nothing is done it reverse the trend. Using any six (6) points, explain the efforts taken by the Government of Tanzania to manage the plastic waste pollution in the country.

11. Mgeni asked that, why some areas are much more populated and other areas are much less and scattered in terms of population and density. What reasons will you give Mgeni? (Six points)

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