

**PRESIDENT'S OFFICE**  
**REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**  
**THE GALAXY OPEN SCHOOL TANGA**  
**FORM FOUR PRE-MOCK EXAMINATION**  
**GEOGRAPHY**

**Time :3hrs**

**AUGUST 2023**

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**INSTRUCTIONS**

1. This paper consists of section **A, B** and **C**
2. Answer all questions in section **A, B** and **TWO** questions from section **C**.
3. Map extract of **SONGWE RIVER** {sheet **244/3**} is provided.
4. Credit will be given for the use of relevant maps and diagrams
5. Write your name (s) on every page of your answer sheet (s)

**SECTION A (16 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 beside the item number. *(10 marks @)01 mark)*

i. Which of the following is a characteristic of desert?

A. High temperature during the day and low temperature during the night. B. High temperature during the day and night. C. High precipitation during the night. D. Very high humidity. E. Low temperature during the day.

ii. The sequential arrangement of soil in the slope from the highland to low land is known as:-

A. Soil profile. B. Soil texture. C. Soil catena. D. Soil porosity. E. Soil colours.

iii. What would happen if the earth was a flattened surface? There would be

A. No day and night. B. Frequent occurrence of solar and lunar eclipse. C. Good aerial photograph appearance. D. long length of daylight and short length of night. E. Fast circumnavigation of the earth.

iv. A thermometer reads  $32^{\circ}\text{C}$  at sea level. What will be the temperature at station X which is 2,500m above sea level?

A.  $12.1^{\circ}\text{C}$ . B.  $15^{\circ}\text{C}$ . C.  $17^{\circ}\text{C}$ . D.  $18.9^{\circ}\text{C}$ . E.  $32^{\circ}\text{C}$

v. What is the longitude of place Z whose local time is 8:00 am, when the local time at Greenwich Meridian is noon?

A.  $30^{\circ}\text{E}$ . B.  $60^{\circ}\text{E}$ . C.  $60^{\circ}\text{W}$ . D.  $65^{\circ}\text{W}$ . E.  $75^{\circ}\text{W}$

- vi. Ocean currents are set in motion by.....
- A. Tides. B. Prevailing winds. C. Waves. D. Ocean size. E. Difference in humidity on the continents.
- vii. High intensity earthquakes are not common in East Africa because;
- A. There are few nuclear reactions to trigger earthquakes. B. there is low continuous motion of plate tectonics. C. Volcanic eruptions in East Africa are few. D. The crust is not deep and stable to allow earthquakes to happen. E. East Africa is not associated with tectonic boundaries.
- viii. \_\_\_\_\_ occurs when the roof of an arc collapses.
- A. Stack. B. Bay. C. Beach. D. Geo. E. Blow hole
- ix. Diamonds and gold are mined in Tanzania. These minerals come from which type of rocks?
- A. Sedimentary. B. Compaction. C. Igneous. D. Metamorphic. E. Accumulated.
- x. An irregular mound of sand and gravel by glacier deposition is known as.....
- A. Drumlin. B. Eskers. C. Erratics. D. Moraine. E. Kame
2. Match the items in column A with the responses in column B by writing the letter of the correct response beside the item number *(06 marks @)01 mark)*

COLUMN A	COLUMN B
i. If Forward bearing $>180^{\circ}$	A. Denominator of horizontal scale over denominator of vertical scale
ii. If Forward bearing $<180^{\circ}$	B. Back bearing =Forward Bearing $-180^{\circ}$
iii. Measure of dispersion/variability	C. Ratio of vertical rise to the horizontal distance.
iv. Gradient	D. Back bearing =Back Bearing $+ 180^{\circ}$
v. Vertical exaggeration.	E. Different in height between two contour lines on the map.
vi. Contour interval on the map.	F. One of the method to overcome hill in chain survey
	G. The range, variance and standard deviation.
	H. $BB \pm 180^{\circ}$
	I. A ground sloping formula

**SECTION B (54 Marks @ 11 marks)**

Answer all questions in this section

3. Study carefully the map extract of **Songwe river** sheet 244/3 then answer the following questions:-

- a). Measure the distance of the railway in kilometer from grid reference (070120) to (130121) go and back if the map scale has changed to 1:25000
- b). With evidences identify the possible climate type of the map (give two evidences to support your answer).
- c). Calculate the area covered by the Songwe river. Give your answer in km<sup>2</sup>
- d). Find the back bearing and direction of Mbulu hill (067113) from Shenje hill (016142)
- e). With reasons state four economic activities and two social activities taking place in the area

4. Study the data below showing cash crop production in East Africa in tones then answer the questions that follows.

<b>CROPS</b>	<b>COFFEE</b>	<b>SISAL</b>	<b>COCONUT</b>	<b>COTTON</b>	<b>OTHERS</b>
<b>PERIOD</b>					
1990	720	600	400	800	900
1991	800	700	500	700	800
1992	850	850	700	850	900

- a). Outline any four (4) methods that might be used to represent the data above.
- b). Give out any four (4) factors for variation of crops production from the data above..
- c). Compute the mode of 1992.
- d). Determine the average of coconut.
- e). Identify the nature of data.

5. Form four students of Mbelei secondary school they were ordered by their headmaster to conduct survey around their school compound in order to identify the area size of the school compound. After there also they were asked to measure the height of mountain which found near the school. Thus:-

- a). Identify two (2) types of survey methods that might be applied by the students.
- b). Identify and give function of the equipments that might be applied on the survey. Four (4) points.
- c). Suppose you among them, how would you advice your survey team to ensure effectiveness so as to avoid discrepancies. Three (3) points.

6. No action without research and no research without action. Critically you as as a form four student with respect to the above statement prove to your classmates that research is an engine to the national and individual development. Six (6) points.

7. The global local climate change is the outcome of several factors. Elaborate five (5) causes of this geographical phenomena.

8. a). Suppose you have given a task by your geography teacher to classify geographical photographs. Identify and explain in three (3) points.

b). Identify which one of the above is

i. Taken from the ground?

ii. Taken from the angle of less than  $90^\circ$

iii. Used in map making?

c). With diagrams explain how to identify the time when the photograph taken. Three (3) points.

### **SECTION C (30 marks @15 marks)**

Answer only **Two** questions in this section

9. Earthquake is among of natural disasters that affect our living environments. By giving six (6) points explain the main environmental hazardous.

10. "Tanzania has a Great Potential for Industrial Development but still the sector performing beyond normal". Justify this statement with six points.

11. Explain six handicaps associated with growth of growth in Tanzania.

### **SIDE THE GREAT**