

CANDIDATE NO.: _____



CENTRAL EAST EDUCATION DIVISON

2023 MSCE MOCK EXAMINATIONS

GEOGRAPHY

Monday, 27th March

Subject Number: MO73/I

Time allowed: 2h 30min

PAPER I

(110 Marks)

MAP READING AND GEOGRAPHY

Instructions

1. This paper contains **16 pages**.
Please check.
2. This paper has **five** questions.
3. The paper has two sections: **A** and **B**
4. Answer ***all the three*** questions in section **A** and any ***one question*** in section **B**
5. Write your name on top of each page of this question paper.
6. In the table provided on this page, tick against the number of the question you have answered.
7. Hand in question paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			

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Section A (85 marks)

Answer ***all*** questions in the spaces provided under each question

1. Study the **1:50,000** map extract of Mulanje sheet **1535 D3** and answer the questions that follow

a. (i) Give the ***six-figure grid reference*** of the trigonometric station **130/NYS**.

_____ (2 marks)

(ii) Give any ***two*** ways how relief has been represented on this topographic map.

_____ (2 marks)

(iii) What is the contour interval on the map?

_____ (1 mark)

b. (i) Mention ***one*** way how land has been used on the map. Give a reason for your answer.

_____ (2 marks)

(ii) State the compass direction of Magololo village in grid square **(7752)** from Sadibwa village in grid square **(7049)**

_____ (2 marks)

(iii) Measure the distance of **S147** road. Give your answer to the nearest kilometer

_____ (3 marks)

c. (i) Convert the scale of the map to a statement scale

_____ (1 mark)

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(ii) Name **two** occupations of people in this area. Give evidence for your answer

(4 marks)

d. Calculate the total area of the land south of **S147** road. Give your answer to the nearest Km². Show your working.



(5 marks)

e. Mention **two** economic activities likely to take place in the area? Give reasons for your answers provided.

(4 marks)

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f. Draw a ***cross-section*** of the area along northing **45** from easting **70** to easting **76** on the graph paper provided. Use the scale of **1 cm** to represent **50 m** on graph paper provided. On the cross section drawn indicate:-

1. Thuchila River
2. S147 Road

(9 marks)

2. a. (i) What does the theory of continental drift say?

(2marks)

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(ii) State any **one** weakness of continental drift theory.

(1 mark)

b. (i) Name the cause of plate tectonics.

(1 mark)

(ii) Describe any **one** type of plates.

(2 marks)

c. Study **Figure 1** below which show a plate boundary. Use it to answer questions that follow.

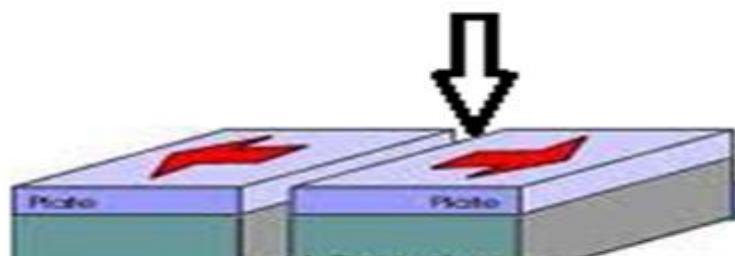


Figure 1

(i) Identify the type of plate movement shown in the diagram.

(1 mark)

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- (ii) Explain why the boundary in figure 1 above is called constructive boundary

(2 marks)

- d. (i) State any **two** differences between acidic lava and basic lava

(4 marks)

- (ii) Explain any **two** positive effects of volcanic activities

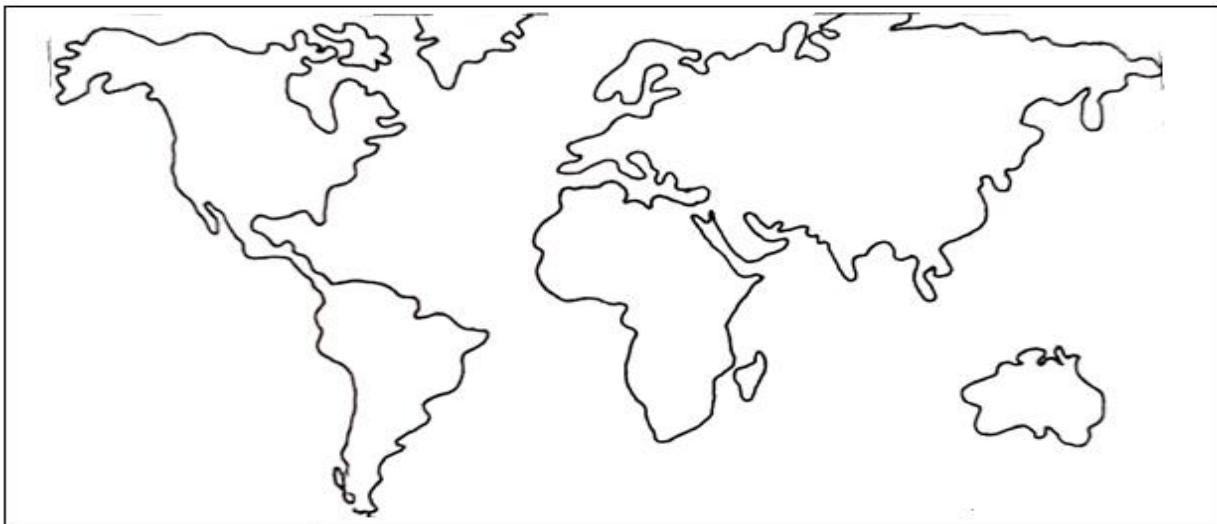
(4marks)

- e. (i) Define the term “*earthquake*”

(1 mark)

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(ii) **Figure 2** is a blank map of the world. Use it to answer **questions d (i)**



On the map locate the major earthquake zones. **(5 marks)**

(iii) Explain any **one** cause of earthquakes

(2 marks)

3. a. (i) Define the term 'shield.'

(1 mark)

(ii) Mention any **two** examples of shields in the Southern Hemisphere

(2 marks)

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b. (i) Explain how metamorphic rocks are formed by the following factors;

1) Heat

(2 marks)

2) Water

(2 marks)

c. (i) Mention any **two** types of coastal deltas.

(2 marks)

(ii) How deltas influence the following human activities;

(1) Farming

(2 marks)

(2) Settlements

(2 marks)

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- c. **Figure 3** is a map showing ocean currents in the Atlantic Ocean. Use it to answer questions that follow.

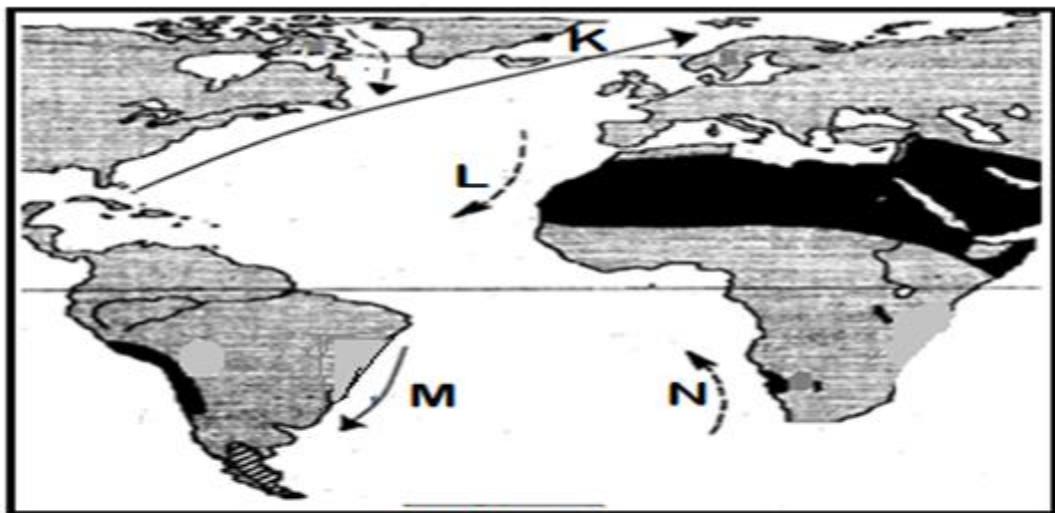


Figure 3

Source: Achievers Senior Secondary Geography Book 3 (2017) by E. Selengo

- (i) Name the ocean currents labelled **K** and **M**.

K _____

M _____

(2 marks)

- (ii) State any **two** differences between ocean current **L** and ocean current **M**.

(4 marks)

- (iii) Explain the effect of ocean currents **K** and **L** on their adjacent landmasses.

K _____

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L _____

(4 marks)

- d. Describe the impact of the Inter-Tropical Convergence Zone (ITCZ) on the weather patterns in Malawi

(2marks)

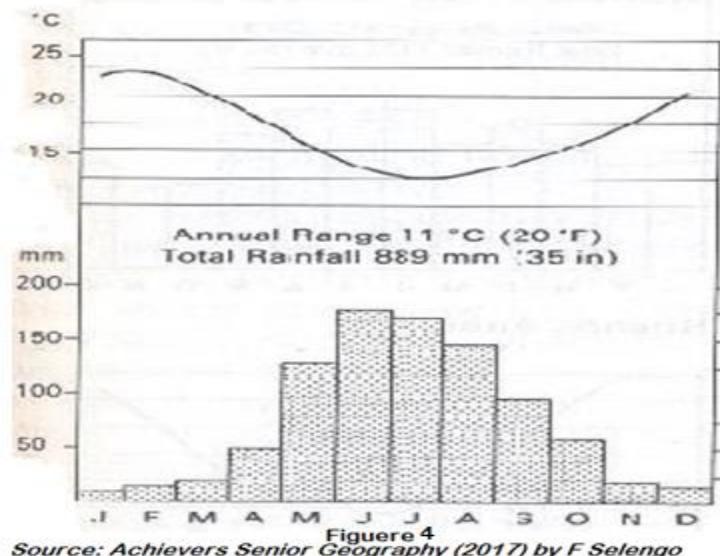
- e. Differentiate *prevailing winds* from *local winds*

(2 marks)

Section B (25 marks)

Answer **one** question only in this section in the spaces provided under each question.

4. (a) **Figure 4** is a graph showing climatic data of a certain town.



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- (i) Identify the climate represented by the climatic data in **Figure 4**.

(1 mark)

- (ii) Describe the relationship between temperature and rainfall in graph.

(2 marks)

- (iii) Give any **two** human activities practiced by people in this climate.

(2 marks)

- (iv) Name any **two** countries in the Southern Hemisphere that experience this climate.

(2 marks)

- b. (i) Explain why desert plants have the following adaptations.

- 1) *succulent stems*:

(2 marks)

- 2) *long deep root system*:

(2 marks)

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c. (i) Explain how the following can cause desertification

1) Cold ocean currents:

(2 marks)

2) Rain shadow effect of mountains:

(2 marks)

(ii) Describe any ***two*** ways of controlling desertification.

(4 marks)

d. (i) Mention ***two*** main High-pressure belts.

(2 marks)

(ii) Account for the low pressure belt developing along the Equator (0°)

(4 marks)

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5. **Table 1** shows temperature and rainfall statistics of a climate B. Use it to answer questions that follow.

Table 1

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp. (°C)	28	28	29	27	26	25	24	25	29	33	32	30
Rain (mm)	340	290	275	80	10	-	-	-	-	03	35	225

a. (i) Identify the climatic region presented by the data in the table

_____ (2 marks)

(ii) State **two** countries in South America that experience this type of climate

_____ (2 marks)

(iii) Describe **two** characteristics of this type of climate

_____ (4 marks)

(iv) Explain any **two** challenges affecting agricultural development in the areas experiencing this type of climate.

_____ (4 marks)

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b. (i) Define the term “*desertification*”

(1 mark)

(ii) Explain how the following causes desertification:

1) *Poor agricultural practices*

(2 marks)

2) *Climate change*

(2 marks)

c. (i) Describe any **two** effects of climate change in Malawi

(4 marks)

(ii) Explain any **two** examples of climate change mitigation and adaptation practices in Malawi.

(4 marks)

END OF QUESTION PAPER!