



EXAMINATION NO.: \_\_\_\_\_

# THE MALAWI NATIONAL EXAMINATIONS BOARD

2024 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

## GEOGRAPHY

Subject Number: M073/I

Tuesday, 16 July

Time Allowed: 2 h 30 min

8:00 – 10:30 am

### PAPER I

(100 marks)

#### MAP READING AND PHYSICAL GEOGRAPHY

##### Instructions

1. This paper contains 12 printed pages. Please check.
2. This paper contains **two** sections A and B. Answer all the **three** questions in Section A and any other **one** question in Section B.
3. Marks for each answer are allocated against the question.
4. Write your **Examination Number** on top of each page of the question paper.
5. In the table provided on this page, **tick against** the number of the question you have answered.
6. Hand in your **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			



**Section A (75 marks)**

Answer **all** the **three** questions in this section in the spaces provided.

1. Study the **1:50,000** map of **Edingeni**, sheet **1233A2** and use it to answer questions that follow.

a. Identify the following on the map:

- (i) riverine feature located at **six-figure** grid reference **413497**.

\_\_\_\_\_  
(1 mark)

- (ii) any **two** land uses.

\_\_\_\_\_  
\_\_\_\_\_  
(2 marks)

b. Calculate each of the following as shown on the map:

- (i) the bearing of Zion Church from Mabiri hospital.

\_\_\_\_\_  
\_\_\_\_\_  
(3 marks)

- (ii) distance of **S112** road from **northing 49** to **northing 52**, giving the answer to the nearest **kilometre**.

\_\_\_\_\_  
\_\_\_\_\_  
(3 marks)

- c. (i) Identify the drainage pattern displayed by Kamfulu River between **easting 45** and **easting 47**.

\_\_\_\_\_  
(1 mark)

- (ii) Mention the direction of flow for Swaswa River.

\_\_\_\_\_  
(1 mark)

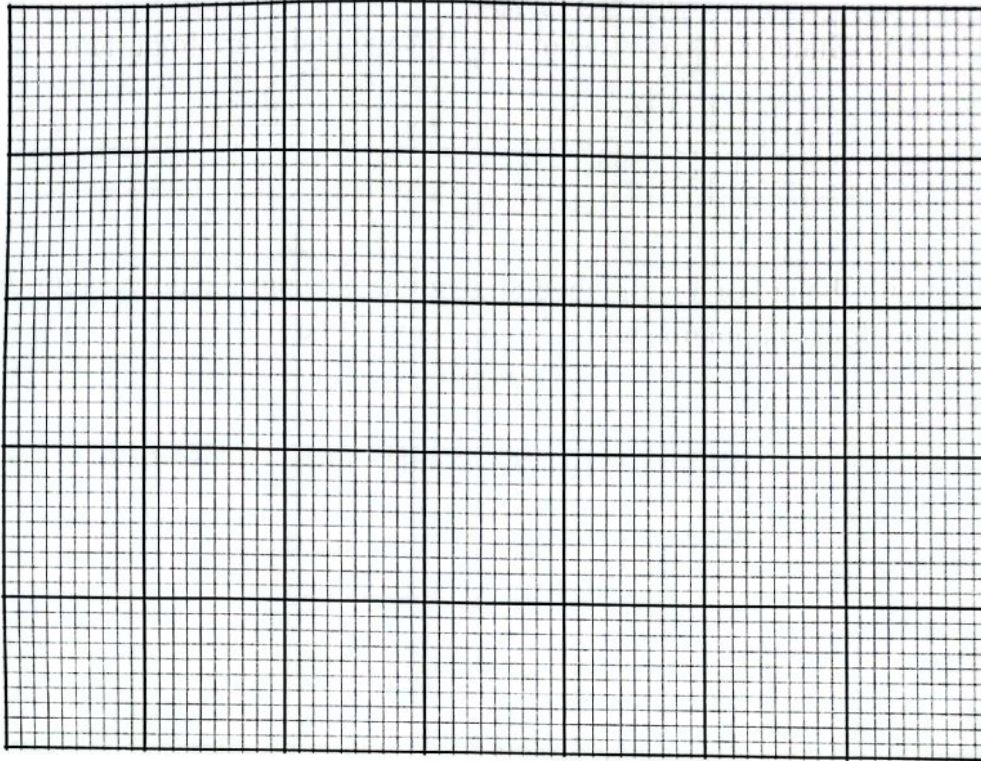


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## 1. (Continued)

- d. (i) Draw a cross-section of the land along **northing 52** between **easting 46** and **easting 51**, using a vertical interval of **1cm for 50 feet**, on the graph paper provided below. (6 marks)



- (ii) On the cross-section show the following:
1. **S112** road. (1 mark)
  2. Swaswa river. (1 mark)
- e. Calculate the actual area of the land located to the east of **S112** road, giving the answer to the nearest **Km<sup>2</sup>**. (6 marks)



2. a. (i) Mention any **two** riverine features which are formed through erosion.

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(2 marks)

- (ii) State any **two** ways in which flood plains are important.

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(2 marks)

- b. With the aid of a well labelled diagram, explain the process for the formation of Block mountains with Compression force.

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(7 marks)

- c. State any **two** weaknesses of the Continental Drift theory.

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(2 marks)

- d. Explain the influence of earthquakes on volcanic eruptions.

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(3 marks)



Continued/...

## 2. (Continued)

- e. Figure 1 is a diagram showing features of a volcano. Use it to answer questions that follow.

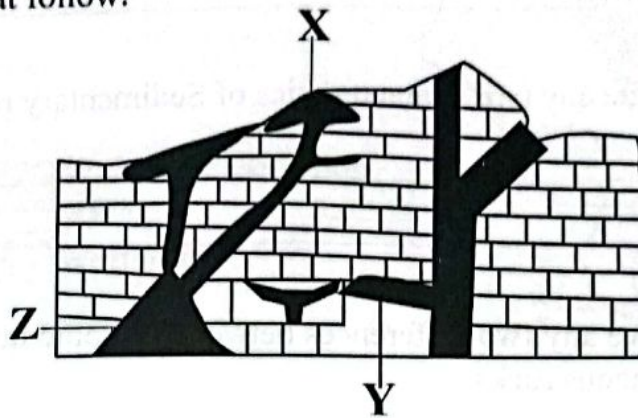


Figure 1

- (i) Identify the features labelled X and Y.

X: \_\_\_\_\_ (1 mark)

Y: \_\_\_\_\_ (1 mark)

- (ii) Explain the process through which feature labelled Z is formed.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (3 marks)

- f. Explain any **two** positive effects of Volcanic eruptions.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (4 marks)



Continued/...



3. a. (i) Give any **two** examples of Metamorphic rocks.

(2 marks)

- (ii) State any **two** characteristics of Sedimentary rocks.

(2 marks)

- (iii) Give any **two** differences between Plutonic igneous and Volcanic igneous rocks.

(2 marks)

- b. (i) Define the term "desertification".

(1 mark)

- (ii) Describe any **two** effects of desertification.

(4 marks)

- c. Explain the influence of air pollution on each of the following:

- (i) global warming.

(2 marks)

- (ii) acid rainfall.

(2 marks)

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## 3. (Continued)

d. Figure 2 is a map of Southern Malawi.

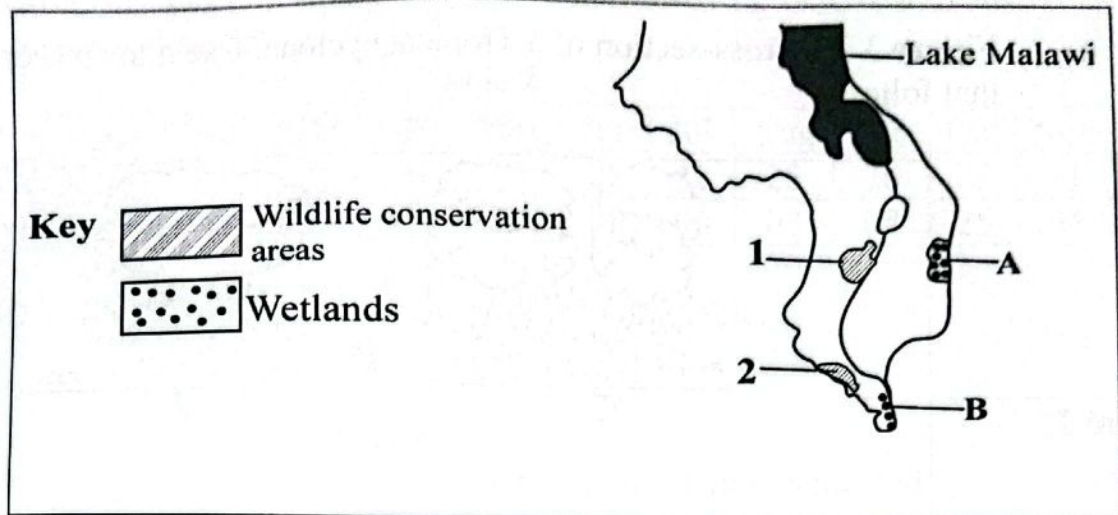


Figure 2

(i) Identify the following:

1. wetlands labelled A and B.

A: \_\_\_\_\_ (1 mark)

B: \_\_\_\_\_ (1 mark)

2. wildlife conservation areas labelled 1 and 2.

1: \_\_\_\_\_ (1 mark)

2: \_\_\_\_\_ (1 mark)

(ii) Explain any **one** way in which wetland labelled B is important.

\_\_\_\_\_  
 \_\_\_\_\_  
 (2 marks)

(iii) Describe any **two** human activities endangering wildlife species in the wildlife conservation area labelled 1.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 (4 marks)



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## Section B (25 marks)

Answer **one** question only in this section.

4. a. **Figure 3** is a cross-section of a Tropical cyclone. Use it to answer questions that follow.

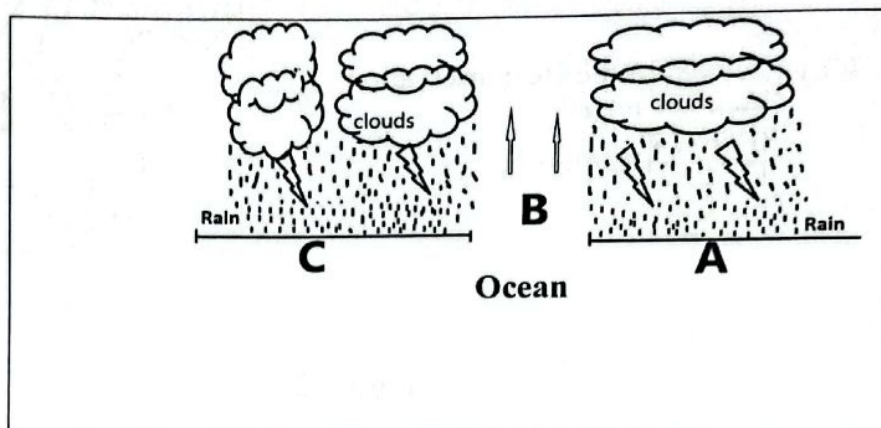


Figure 3

- (i) Name the regions labelled **A** and **B**.

**B:** \_\_\_\_\_ (1 mark)

**C:** \_\_\_\_\_ (1 mark)

- (ii) State any **two** weather conditions associated with the arrival of each of the following regions in an area.

1. Region **A**

\_\_\_\_\_  
\_\_\_\_\_  
(2 marks)

2. Region **B**

\_\_\_\_\_  
\_\_\_\_\_  
(2 marks)

- (iii) Draw an arrow on the cyclone showing the general movement of air in the region. (1 mark)



Continued/...



## 4. (Continued)

- b. Table 1 shows climate data for a station located 12° S. Use it to answer questions that follow.

Table 1

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp °C	27	27	26	24	23	22	22	25	28	32	31	29
Prec mm	191	188	114	25	13	00	00	03	08	25	94	147

- (i) Identify the climate represented by the table.

\_\_\_\_\_ (1 mark)

- (ii) Mention the hemisphere in which the station is located.

\_\_\_\_\_ (1 mark)

- (iii) Name any **two** countries in Northern Africa which experience the climate represented by the table.

\_\_\_\_\_  
 \_\_\_\_\_ (2 marks)

- (iv) Calculate the annual temperature range for the station.

\_\_\_\_\_  
 \_\_\_\_\_ (2 marks)

- (v) Explain the rainfall pattern for the station.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (2 marks)

- (vi) Describe the type of vegetation found in areas experiencing the climate represented by the table.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (2 marks)



Continued/...

## 4. (Continued)

- c. Describe any **two** characteristics of Prevailing winds.

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(4 marks)

- d. (i) Give any **two** examples of high clouds.

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(2 marks)

- (ii) Explain the role of dust particles in cloud formation.

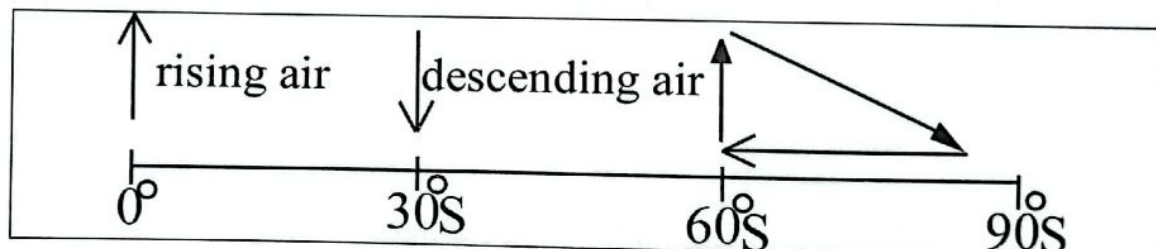
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(2 marks)

5. a. **Figure 4** is flow diagram showing global air circulation between the main pressure belts. Use it to answer questions that follow.



**Figure 4**

- (i) Using arrows complete the global air circulation system on the diagram. (4 marks)
- (ii) Identify the pressure systems which develop on each of the following latitudes as shown on the diagram.
- 0° (1 mark)
- 90° (1 mark)
- (iii) Label each of the following Prevailing winds on the diagram.
1. Trades (1 mark)
  2. Westerlies (1 mark)



Continued/...

5. (Continued)

b. (i) Name the Tropical cyclones which affect each of the following regions:

1. Caribbean.

(1 mark)

2. South East Africa.

(1 mark)

(ii) Name the ocean from which cyclones that affect Southern Africa originate.

(1 mark)

(iii) State any **two** effects of Tropical cyclones.

(2 marks)

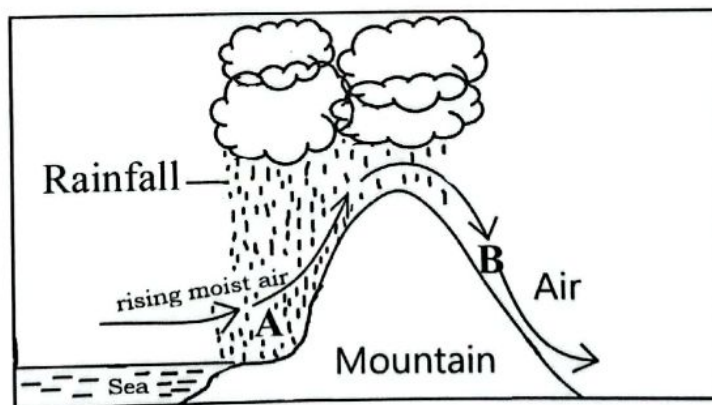
c. **Figure 5** is a diagram showing formation process of rainfall. Use it to answer questions that follow.

Figure 5

(i) Name the slopes labelled A and B.

A: \_\_\_\_\_ (1 mark)

B: \_\_\_\_\_ (1 mark)

(ii) Identify the type of rainfall shown.

(1 mark)



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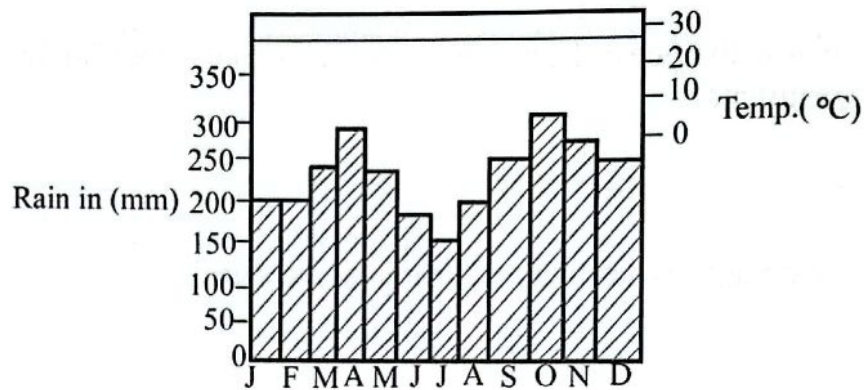


5. c. (Continued)

- (iii) State any **two** characteristics of the type of rainfall shown in the figure.

(2 marks)

- d. **Figure 6** is a climate graph showing distribution of rainfall and temperature. Use it to answer questions that follow.



**Figure 6**

- (i) Identify the climate region represented by the graph.

(1 mark)

- (ii) Describe the **two** unique rainfall attributes associated with the climate region represented by the graph.

(4 marks)

- (iii) Describe the relationship between temperature and rainfall as shown in the graph.

(2 marks)

**END OF QUESTION PAPER**  
NB: This paper contains 12 printed pages.

