



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)



Continued/...

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 **Km²**. (6 marks)



Continued/...

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

(2 marks)

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

(2 marks)

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

(7 marks)

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

(2 marks)

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

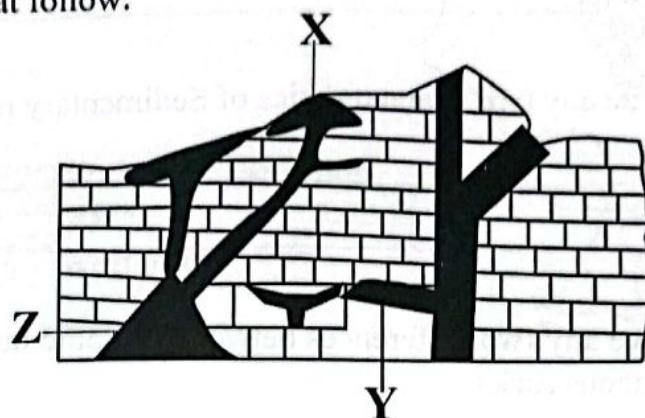
(3 marks)



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)
Continued/...

3. (Continued)

- d. Figure 2 is a map of Southern Malawi.

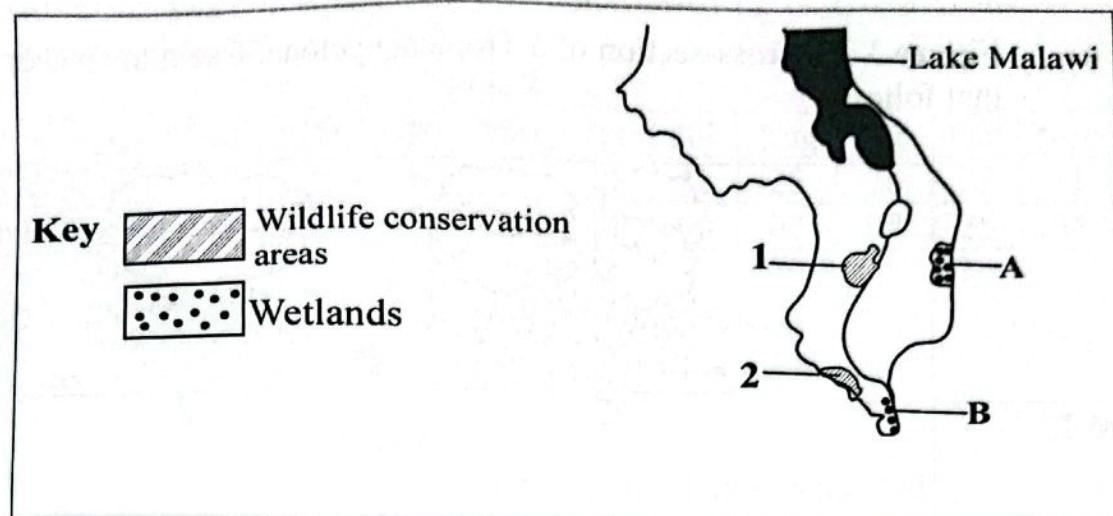


Figure 2

- (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)

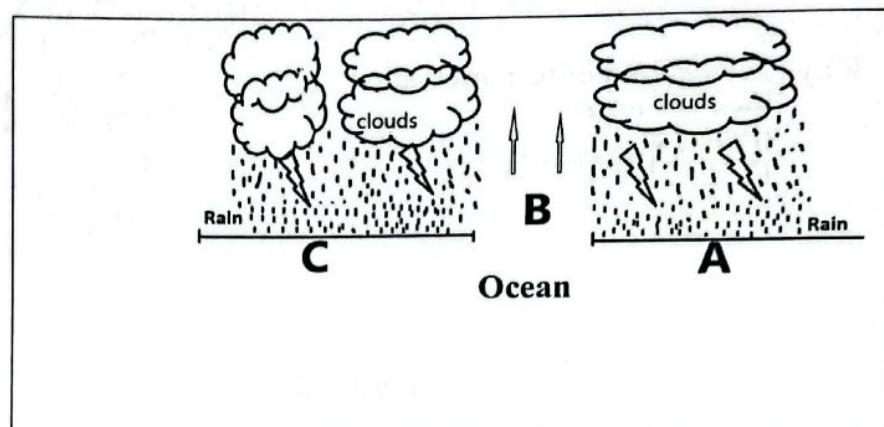


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Section B (25 marks)

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.

(4 marks)

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

(2 marks)

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

(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.

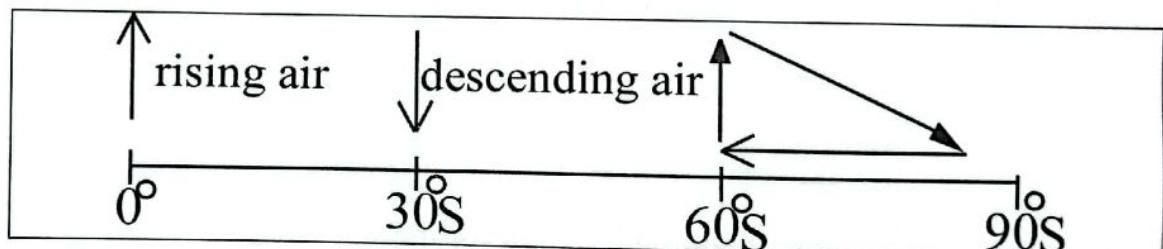


Figure 4

- (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.

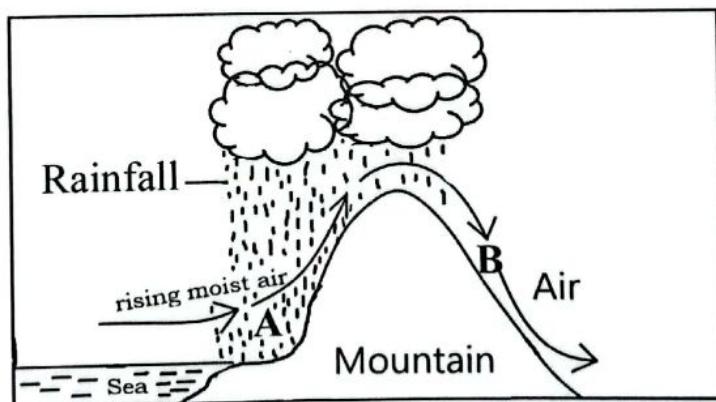


Figure 5

- (i) Name the slopes labelled A and B.

A: _____ (1 mark)

B: _____ (1 mark)

- (ii) Identify the type of rainfall shown.

_____ (1 mark)



Continued/...

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.

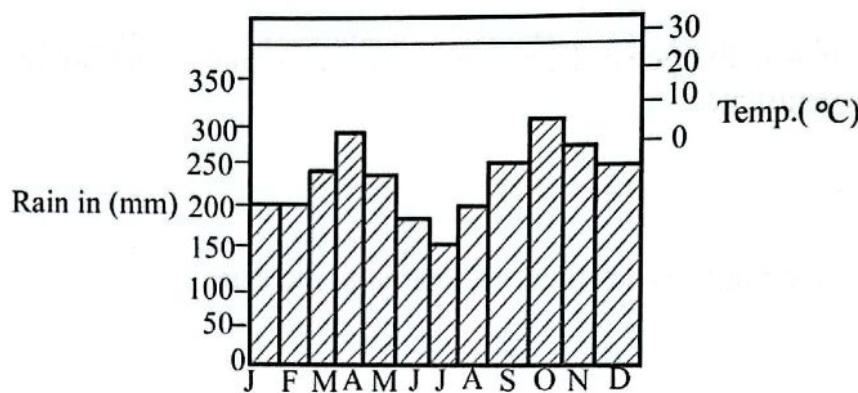


Figure 6

- (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.

