



EXAMINATION NO.: _____

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

GEOGRAPHY

Subject Number: M073/I

Tuesday, 11 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 13 printed pages. Please check.
2. The paper has five questions.
3. There are **two** sections, **A** and **B**. Follow the instructions for each section carefully.
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 the **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 questions in this section in the spaces provided.

1. Study the **1:50,000** map extract for Zomba sheet **1533 B3** and use it to answer questions that follow.

- a. (i) Identify the human made feature located on **six-figure** grid reference **777985**.

_____ (1 mark)

- (ii) Find the six-figure grid reference for the trigonometric point **Chilwa 1060**.

_____ (2 marks)

- b. Calculate the bearing of trigonometric station **1060** from trigonometric station **629**.

_____ (3 marks)

- c. Account for the distribution of settlements in the region captured on the map. Give any **one** point.

_____ (3 marks)

- d. Explain any **one** environmental challenge which is experienced by residents in the area shown on the map.

_____ (3 marks)

Continued/...

1. (Continued)

- e. Find the area of Lake Chilwa captured on the map within the area occurring under T/A Kuntumanji, presenting the answer to the nearest kilometre.

(6 marks)

- f. Calculate the gradient of the **S143** road from **easting 71** to **easting 74**.

(7 marks)

Continued/...



2. a. (i) Describe the term 'meander' in relation to river profiles.

(2 marks)

- (ii) With the aid of diagrams describe the process leading to formation of ox-bow lakes.

(9 marks)

- b. **Figure 1** is a diagram showing coastal features.

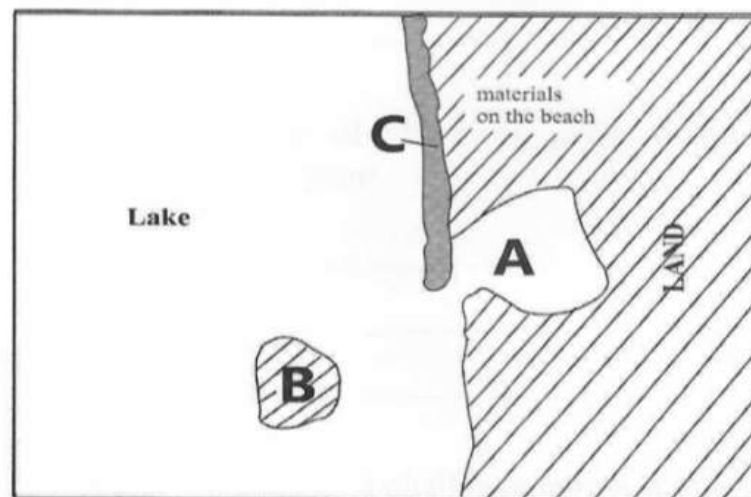


Figure 1

- (i) Identify the coastal features labelled **B** and **C**.

B: _____ (1 mark)

C: _____ (1 mark)

Continued/...



2. b. (Continued)

- (ii) Give any **two** examples of coastal feature **A** occurring along Lake Malawi.

(2 marks)

- (iii) Describe the process through which coastal feature **B** is formed.

(3 marks)

- c. **Figure 2** is an illustration of a plate boundary. Use it to answer questions that follow.

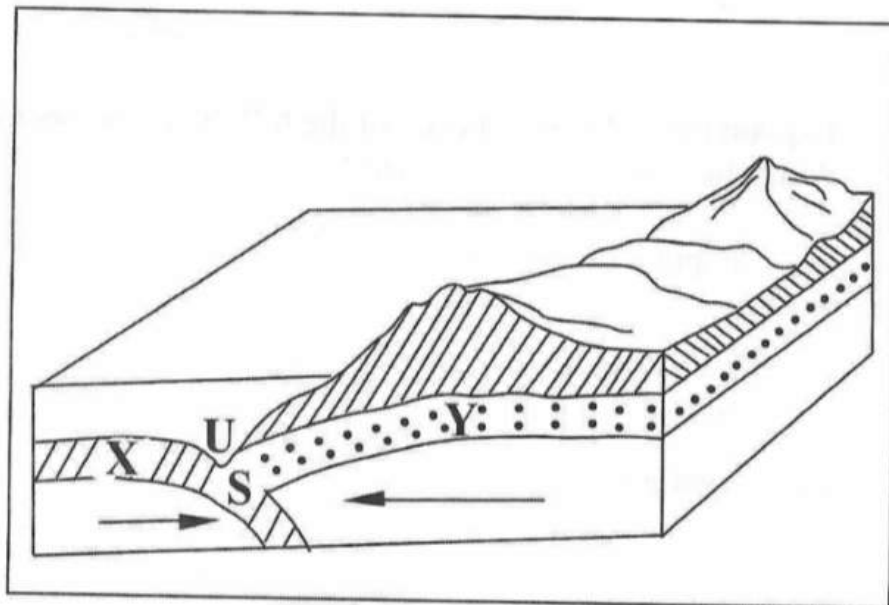


Figure 2

- (i) What type of plate is plate **Y**?

(1 mark)

- (ii) Identify the geological feature labelled **U**.

(1 mark)





2023 GEOGRAPHY Paper I

EXAMINATION NO.:
Page 6 of 13

M073/I

2023

2. c. (Continued)

(iii) Give any **two** examples of the geological feature labelled U.

(2 marks)

(iv) Describe the behaviour of plates X and Y when they meet at point S.

(3 marks)

3. a. State any **two** examples of climate change adaptation measures which are used in Malawi.

(2 mark)

b. Explain the influence of each of the following factors towards desertification:

(i) population growth

(2 marks)

(ii) overgrazing

(2 marks)

c. Describe any **one** effect of each of the following human activities on wetlands:

(i) cultivation

(2 marks)

Continued/...



2023

2. c. (Continued)

(iii) Give any **two** examples of the geological feature labelled U.

(2 marks)

(iv) Describe the behaviour of plates X and Y when they meet at point S.

(3 marks)

3. a. State any **two** examples of climate change adaptation measures which are used in Malawi.

(2 mark)

b. Explain the influence of each of the following factors towards desertification:

(i) population growth

(2 marks)

(ii) overgrazing

(2 marks)

c. Describe any **one** effect of each of the following human activities on wetlands:

(i) cultivation

(2 marks)

Continued/...

3. c. (Continued)

(ii) pollution

(2 marks)

d. Figure 3 is a map showing ocean currents.

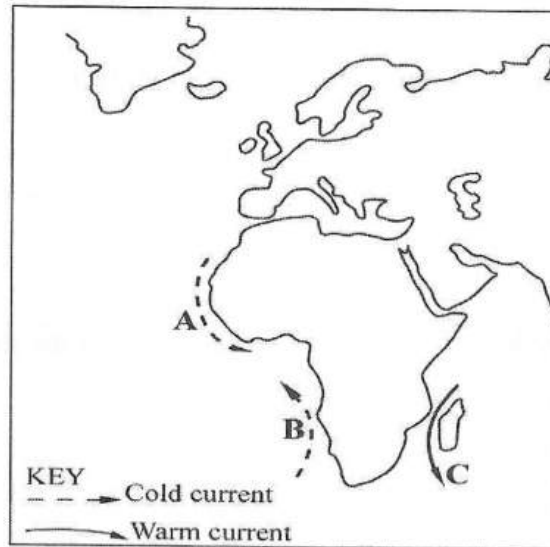


Figure 3

(i) Name the ocean currents labelled A, B and C.

A: _____ (1 mark)

B: _____ (1 mark)

C: _____ (1 mark)

(ii) Describe any **one** effect of each of the following ocean currents on adjacent landmasses:

1. current A

(2 marks)

2. current B

(2 marks)

Continued/...



~ Chithambo

Photo

Reply

Mark as read

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2023

Page 9 of 13

M073/I

4. (Continued)

- b. Figure 4 is an illustration of a front. Use it to answer questions that follow.



Figure 4

- (i) Identify the type of the front shown.

(1 mark)

- (ii) State any **two** atmospheric conditions which occur in an area due to the presence of the front shown.

(2 marks)

- (iii) Describe how the front illustrated develops.

(3 marks)

- c. Figure 5 is an illustration showing the distribution of air pressure belts in the Southern hemisphere.

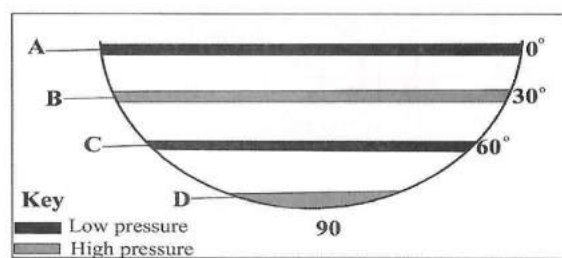


Figure 5

- (i) Name the pressure belts labelled A and D.

A: _____ (1 mark)

D: _____ (1 mark)

Continued/...

4. (Continued)

- b. **Figure 4** is an illustration of a front. Use it to answer questions that follow.



Figure 4

- (i) Identify the type of the front shown.

(1 mark)

- (ii) State any **two** atmospheric conditions which occur in an area due to the presence of the front shown.

(2 marks)

- (iii) Describe how the front illustrated develops.

(3 marks)

- c. **Figure 5** is an illustration showing the distribution of air pressure belts in the Southern hemisphere.

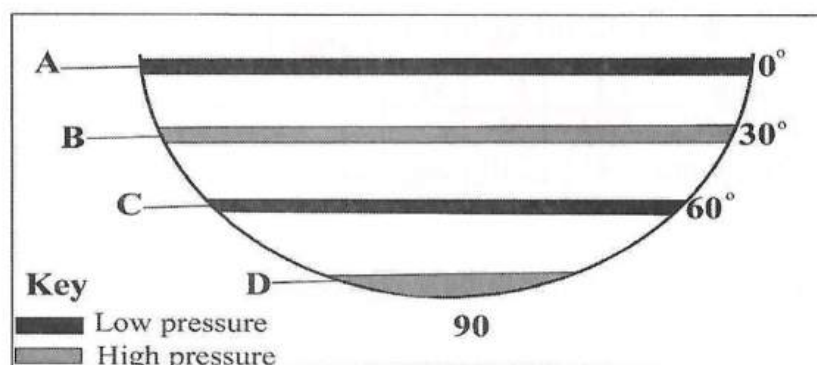


Figure 5

- (i) Name the pressure belts labelled A and D.

A: _____ (1 mark)

D: _____ (1 mark)

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2023 GEOGRAPHY Paper I

EXAMINATION NO.:

Page 10 of 13

M073/I

2023

4. c. (Continued)

- (ii) Account for the pressure patterns in each of the following pressure belts:

1. belt B

(2 marks)

2. belt C

(2 marks)

- (iii) Using arrows, show the direction of each of the following prevailing winds on the diagram:

1. Trades (1 mark)
2. Westerlies (1 mark)
3. Polar (1 mark)

- d. **Table 1** shows climate data for a station **M** which is located **5° S**. Use it to answer questions that follow.

Table 1

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp °C	24	24	25	25	25	24	23	23	24	25	25	24
Prec in mm	215	210	205	220	210	205	200	195	210	220	215	210

- (i) Identify the climate represented by the data for station **M**.

(1 mark)

- (ii) Name any **two** countries in the western hemisphere which experience the climate similar to that of station **M**.

(2 marks)

Continued/...



4. c. (Continued)

(ii) Account for the pressure patterns in each of the following pressure belts:

1. belt B

(2 marks)

2. belt C

(2 marks)

(iii) Using arrows, show the direction of each of the following prevailing winds on the diagram:

1. Trades (1 mark)
2. Westerlies (1 mark)
3. Polar (1 mark)

d. Table 1 shows climate data for a station M which is located 5° S. Use it to answer questions that follow.

Table 1

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Temp °C	24	24	25	25	25	24	23	23	24	25	25	24
Prec in mm	215	210	205	220	210	205	200	195	210	220	215	210

(i) Identify the climate represented by the data for station M.

(1 mark)

(ii) Name any **two** countries in the western hemisphere which experience the climate similar to that of station M.

(2 marks)

Continued/...

- (iii) Explain any **two** challenges which affect development in the areas that are located in the climatic region represented by the table.

(4 marks)

5. a. **Table 2** shows climate data for station **P** located **35° N**. Use it to answer questions that follow.

Table 2

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp °C	06	08	14	20	24	26	26	23	21	18	12	08
Preci mm	200	100	50	20	05	00	05	15	50	150	200	220

- (i) Identify the climatic region represented by the table.

(1 mark)

- (ii) Calculate the annual temperature range for Station **P**.

(2 marks)

- (iii) Explain the rainfall pattern for Station **P**.

(3 marks)

Continued/...

2023

5. (Continued)

- b. With the aid of a well labelled diagram describe the occurrence of a land breeze.

(7 marks)

- c. **Figure 6** is a map of Africa showing distribution of some local winds.

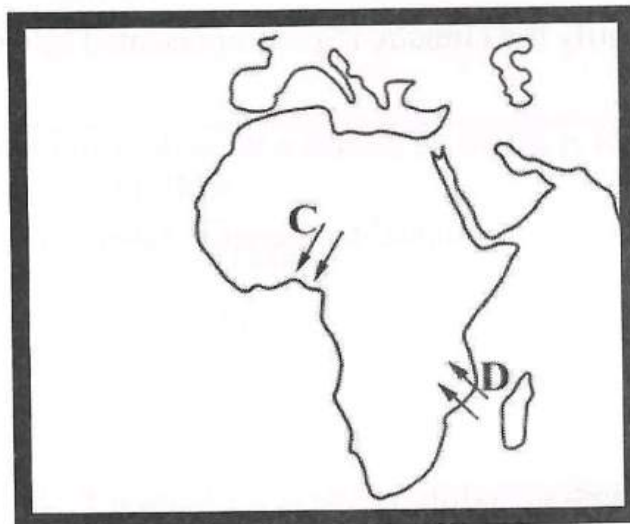


Figure 6

- (i) Identify local winds C and D.

C: _____ (1 mark)

D: _____ (1 mark)

Continued/...

5. c. (Continued)

(ii) Name the **two** countries which are affected by wind **D**.

(2 marks)

(iii) State any **two** characteristics of wind **D**.

(2 marks)

(iv) Describe the weather patterns associated with local wind **C**.

(2 marks)

(v) Explain any **two** effects of local wind **C** to the affected areas.

(4 marks)

END OF QUESTION PAPER

NB: This paper contains 13 printed pages.

