

NAME: \_\_\_\_\_ SCHOOL: \_\_\_\_\_  
2024 M073/I



# NSANJE DISTRICT MOCK

MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

## GEOGRAPHY

Subject Number: M073/I

Monday, 25 March

Time Allowed: 2 h 30 mins

8:00-10:30 am

### PAPER I

(110 marks)

#### MAP READING AND PHYSICAL GEOGRAPHY

##### Instructions

1. This paper contains 15 printed pages. Please **check**.
2. This paper has **five** questions
3. This paper contains **two** sections, **A** and **B**.
4. Section **A** comprises **three** questions and you must answer **all** the **three** questions in the spaces provided. The maximum number of marks for each answer is indicated against each question.
5. Section **B** comprises **two** questions. Answer **one** question only.
6. Write your **Name and School Name** at the top of each page of your question paper in the spaces provided.
7. In the table provided on this page, **tick** against the question number you have answered.

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

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Section A (75 marks)

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Answer **all** questions

1. a. Study the **1: 50,000** map extract of **Kasungu** area and answer the questions that follow.

(i) Identify the human feature found at grid reference **377824**.

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

(ii) Give a six figure grid reference of the trigonometrical station **519/MWT**.

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

(iii) What the compass direction of **BH GK120** from Trigonometric station **515/MWT**.

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

b. (i) Measure the distance of **T324** road from a junction with **T323** road to easting **40**. Give your answer to the nearest kilometre.

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

(ii) Calculate the area between northing **82** and **85** from the western margin of the map up to easting **40**. Give your answer to the nearest kilometer.



(4 marks)

c. (i) Describe a drainage pattern displayed in grid square **3779**.

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

(ii) What is the altitude of the highest point on the map?

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

Continued/...

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d. (i) What pieces of evidence on the map suggest that the following take place

(1) Commercial farming:

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

(2) Fishing:

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

(ii) What settlement pattern is displayed by Matondo village?

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

(iii) Explain any one advantage of the settlement pattern mentioned in d (ii)

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

d. (i) Is Makungwa school intervisible from Chisulu village? Give a reason for your answer.

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

(ii) Measure the bearing of the borehole **BH E202** from the trigonometric station **515/MWT**

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

e. (i) What **two** social services are available in Kasungu?

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

(ii) What is the contour interval of the map?

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

f. (i) Mention any **two** ways in which relief has been represented on the map?

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

Continued/...

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(ii) Describe any **two** land uses displayed to the South West part of the map.

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

**g.** Draw a cross section along northing **79** between easting **32** and **38** using the graph paper provided. Take **1cm** to represent **50 feet** for vertical scale. On it show **T323** road.

Continued/...



[illegible]

**(8 marks)**

Continued/...



2. a. (i) Define 'Crustal plates'.

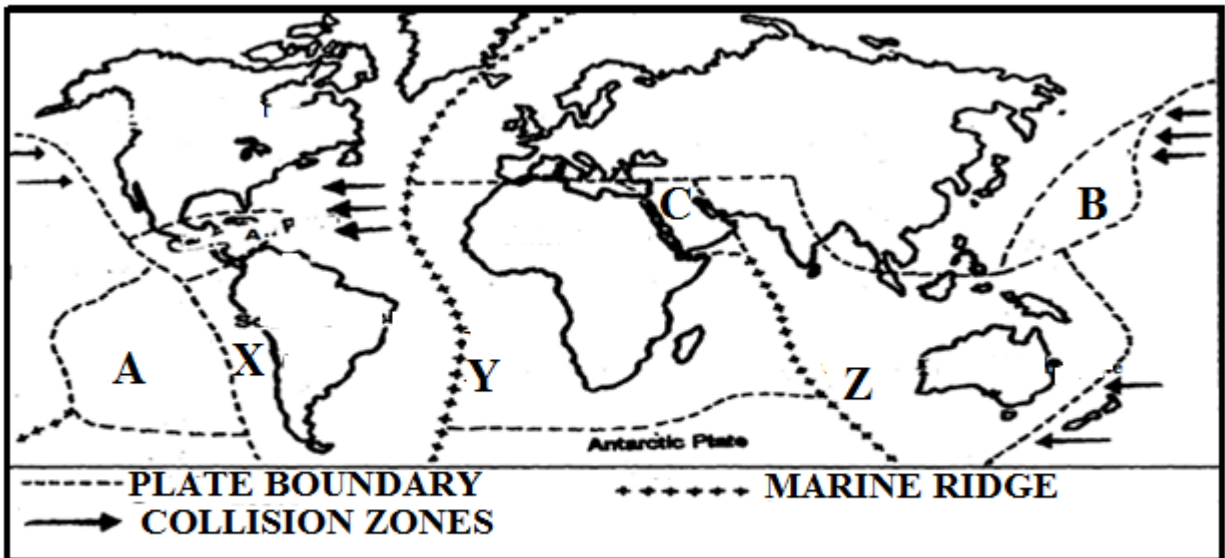
\_\_\_\_\_  
\_\_\_\_\_  
(1 marks)

- (ii) Mention **one** present day continents that were formed from Laurasia.

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

b. **Figure 1** below is a world map showing plates and plate boundaries. Use it to answer the questions that follow.

- (i) Identify the plates labeled **A** and **B**.



Source: F.R. Phiri Physical and Economic Geography

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

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

- (ii) Explain how marine ridge Y was formed.

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

- (iii) Identify the marine ridge Y

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


Continued/...

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**(1 marks)**

## Diagram



### Explanation

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**(2 marks)**

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**(2 marks)**

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**(2 marks)**

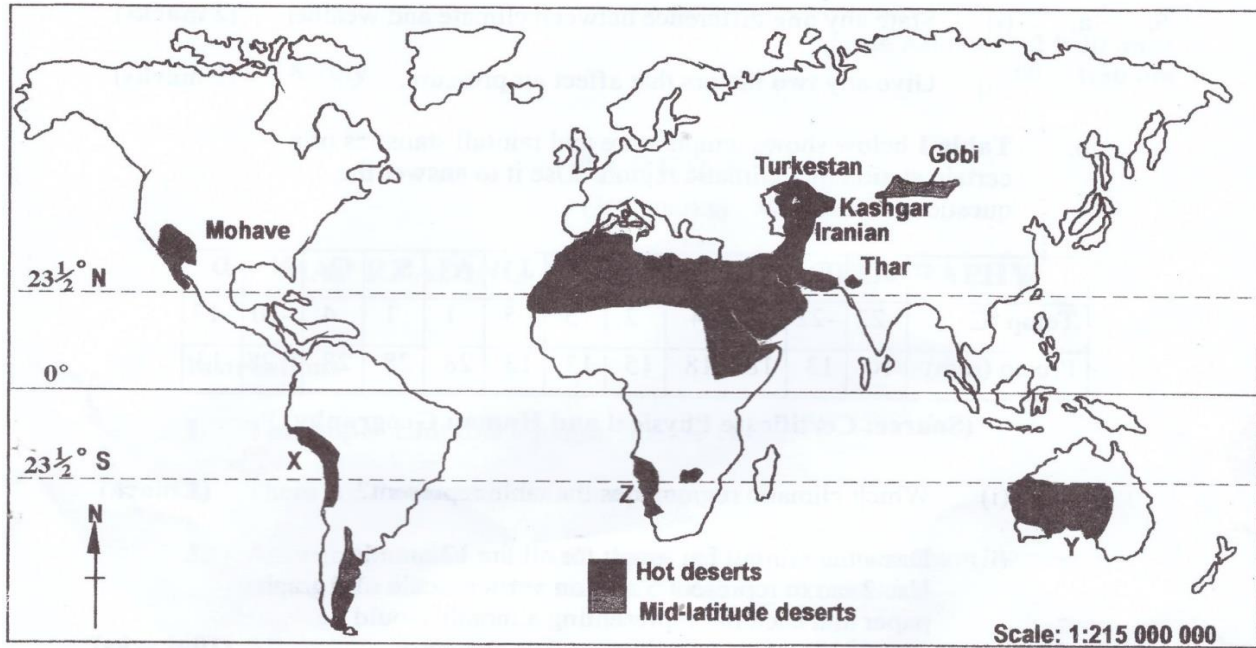
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**(1 marks)**

Continued/...

( 2 marks)

b. (i) **Figure 2** is a world map showing deserts. Use it to answer the questions that follow.



**Figure 2**

i. Name the deserts labeled.

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

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

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

ii. Account for **two** factors responsible for the location of hot deserts.

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(4 marks)

c (i) Describe **two** ways in which climate change contribute to increase in cases of flooding.

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Continued/...



(4 marks)

(ii). Define the term endangered 'species'.

(1 mark)

d. **Figure 3** below is a world map showing Ocean Currents. Use it to answer questions that follow.

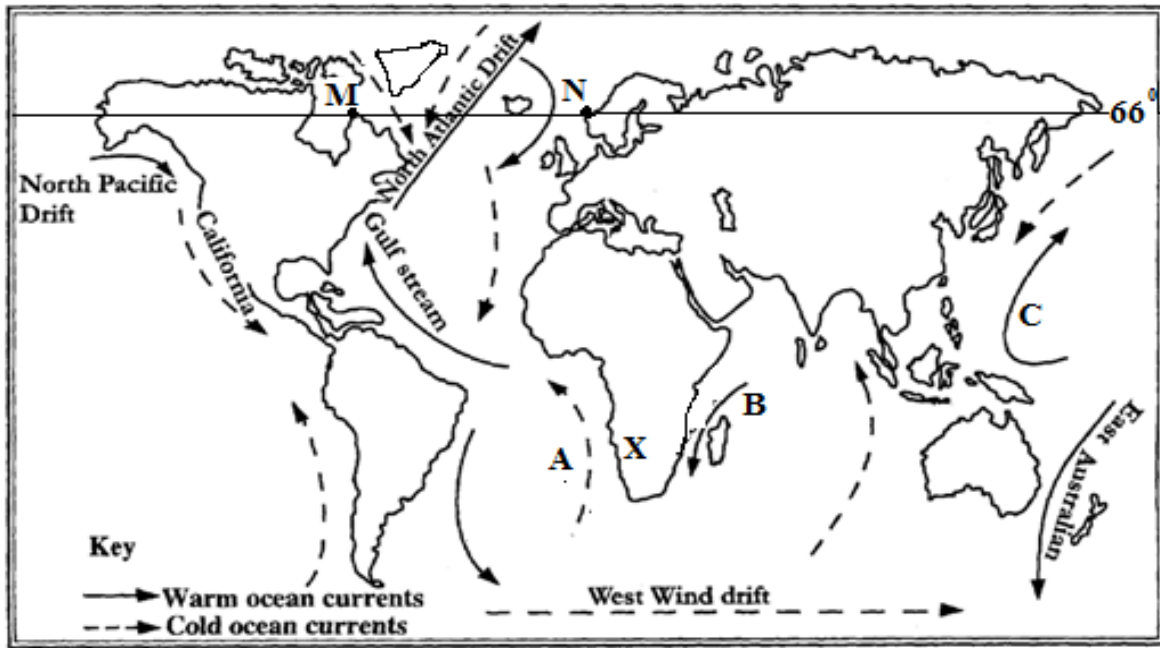


Figure 3

(i) Name the ocean currents labeled **A** and **C**.

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

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

(ii) Explain why area marked **M** on the map is colder than area marked **N** despite being on the same latitude.

(2 marks)

Continued/...

d. (i) Name any **two** types of deltas.

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

(ii) Describe any **two** necessary conditions for the formation of deltas.

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

**Section B** (25 marks)

Answer **one** question from this section.

Answer **one** question in this section in the spaces provided.

4. a. (i). Explain Ferrel's Law of deflection.

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

(ii). Explain how a non-rotating globe affect the direction of prevailing wind.

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

b. **Figure 4** is a diagram showing isobars.

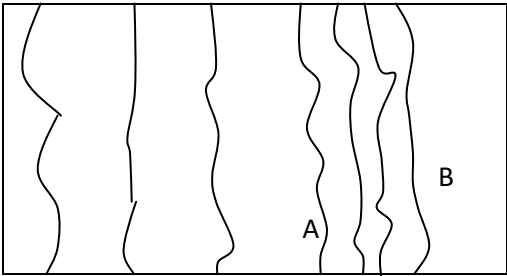


Figure 4

(i). Using an arrow show the direction of wind between points **A** and **B**.

(1 mark).

(ii). Explain the wind strength by using isobars.

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(2 marks).

c. (i) Give **two** characteristics of active volcano.

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(2 marks).

(ii). Describe the relationship between volcanism and mountain building.

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(2 marks).

d. Describe the formation of igneous rocks.

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(3 marks).

Continued/...

e. **Figure 5** is a diagram showing the development of local winds. Use it to answer questions that follow:

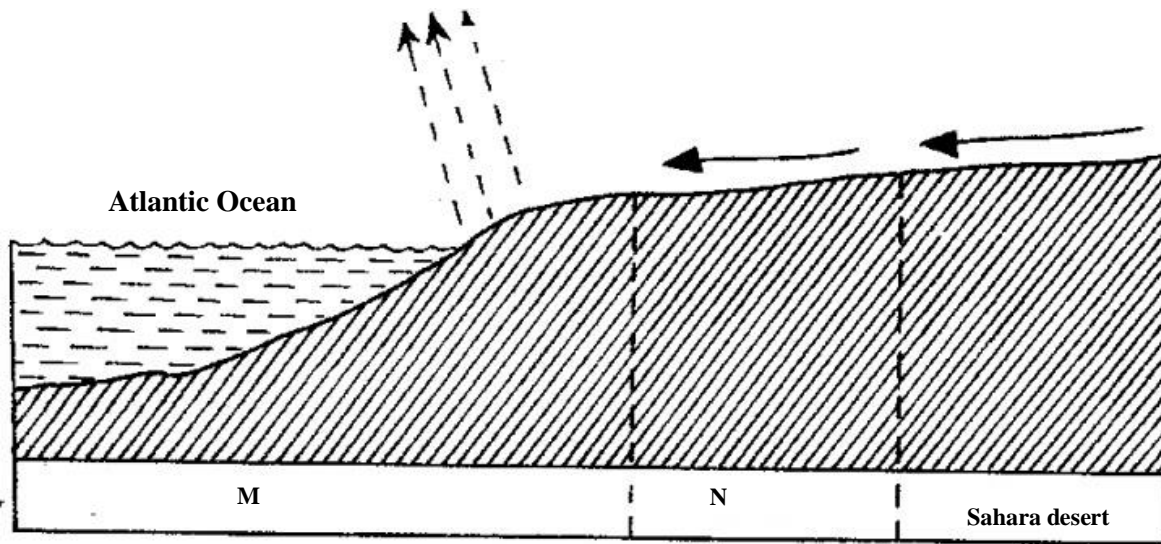


Figure 5

(i). Name the local wind shown in the diagram.

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

(ii). Identify countries **M** and **N**.

**M.** \_\_\_\_\_ (1 mark).

**N.** \_\_\_\_\_ (1 mark).

(iii). Give any **two** characteristics of the local wind shown in the diagram.

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(2 marks).

(iv). Describe any **one** effect of the wind to the affected land mass.

(2 marks).

(v). Briefly explain the formation of orographic rainfall.

(3 marks).

5. a. (i) Name the Tropical Cyclones that occur in the following regions

1. Asia \_\_\_\_\_ (1 mark)

2. West Indies \_\_\_\_\_ (1 mark)

(ii) Describe any **two** weather conditions that occur when a temperate Cyclone is stationed over an area.

(4 marks)

(iii) Explain any **two** conditions necessary for the development of tropical cyclones.

(4 marks)



b. With the help of a diagram explain how cyclonic rainfall is formed.

Diagram

(3 marks)

Explanation

(3 marks)

c. Figure 5 below is a table showing temperature and rainfall readings for a climatic station. Use it to answer the questions that follow.

MONTH	J	F	M	A	M	J	J	A	S	O	N	D
TEMP(°C)	25	25	25	25	25	24	24	27	25	25	25	25
RAIN (mm)	138	144	194	190	83	30	25	58	117	173	225	223

i. Which climatic type is represented in the table?

(1 mark)



ii. Calculate the temperature range for the station

(2 marks)

iii. In which hemisphere is the statistical information in the table taken? Give a reason for your answer.

(2 marks)

d. i. Explain **two** vegetation characteristics of tropical desert climate.

(4 marks)