

Examination Number: \_\_\_\_\_

**BLANTYRE RURAL DISTRICT EXAMINATIONS**

**2024 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK EXAMINATIONS**

# Geography

**Subject Number: M073/I**

**Monday, 25<sup>th</sup> March, 2024**

**Time Allowed: 2 hrs 30 min**

## PAPER I

**(100 marks)**

### MAP READING AND PHYSICAL GEOGRAPHY

#### Instructions

- This paper contains 14 printed pages. Please check.
- There are **two** sections in this paper.  
**Section A** and **B**
- Answer all **three** questions in section **A**. In section **B**, answer only **one** question.
- Write your Examination Number on top of each page of the paper.
- In the table provided on this page, tick against the number of the question you have answered.

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

**Continued.../**

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**SECTION A (75 MARKS)**

**Answer all the three questions in the spaces provided**

1. Study the **1: 50 000 map extract of Nkhotakota** and answer questions that follow.

a. (i) What is the altitude of Selemani Village?

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

(ii) State any **two** methods of representing relief that have been used on this map.

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

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

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

b. (i) Give the **six figure** grid reference of the trigonometrical station **56/NYS**.

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

(ii) Account for the presence of few settlements to the North Eastern part of the area shown on the map.

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

c. (i). What is the compass direction of the bridge from the borehole **BH FP158**?

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

(ii) Measure the length of the district road. Give your answer to the nearest kilometer.

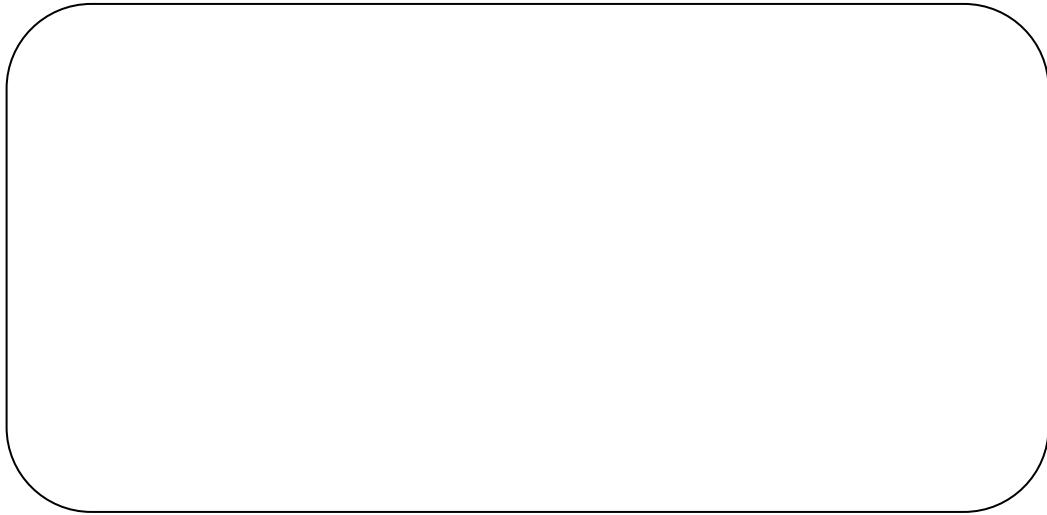
\_\_\_\_\_  
\_\_\_\_\_ (3 marks)

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

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

(ii) Calculate the total area **not** covered by Lake Malawi. Give your answer to the nearest Kilometer.



(5 marks)

e (i) Identify the riverine feature in grid square **4075**.

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

f. Draw a cross section of the area along **northing 77 from easting 34 to easting 38** on the graph paper provided. Use the vertical interval of **1cm to 50feet**. (5 marks)

2. a. (i) Define “pollution”.

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

(ii) Give any **two** ways of controlling air pollution.

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

(iii) Explain any **one effect** of water pollution on the fishing industry.

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

b. Give any **three** ways in which coastal features are economically important.

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

c. (i) With the aid of a flow diagram, explain how clastic sedimentary rocks are formed.



\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_. (10 marks)

(ii) Give any **two** examples of each of the following classes of igneous rocks:

1. Plutonic rocks

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

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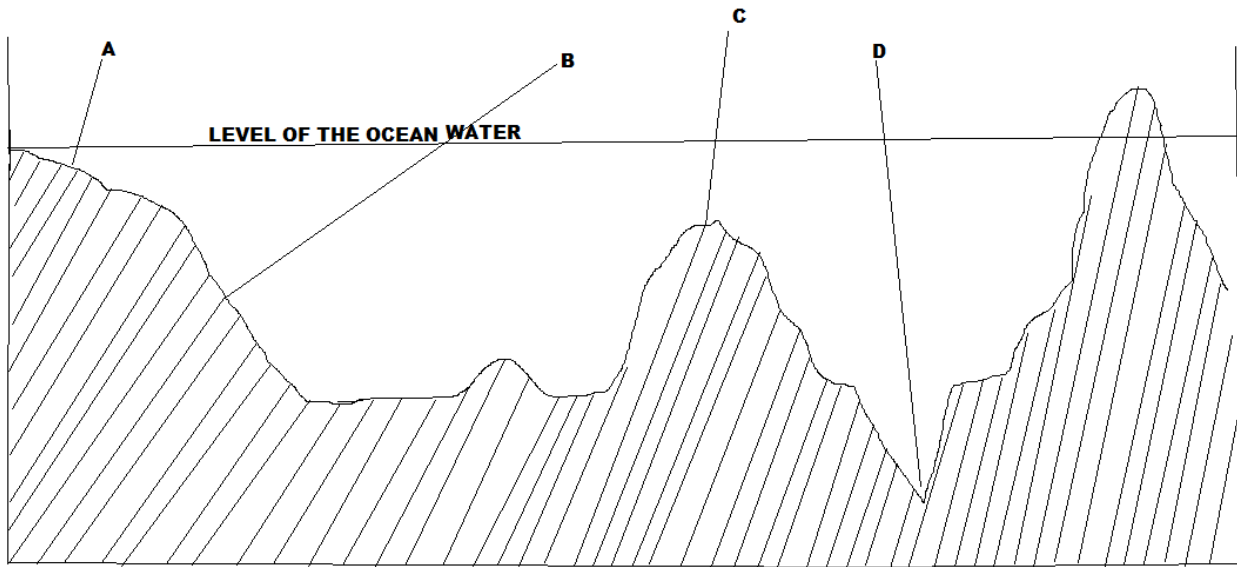
2. Volcanic rocks

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

(iii) State **three** economic uses of rocks.

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

3. a. **Figure 1** below is a diagram showing the relief features of the ocean floor. Use it to answer questions that follow



(i) Name the features labeled

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

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

**D** \_\_\_\_\_ (1 mark)

(ii) Explain **any three** ways in which feature labeled **A** is important.

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(6 marks)

(iii) Explain how feature labeled **D** is formed.

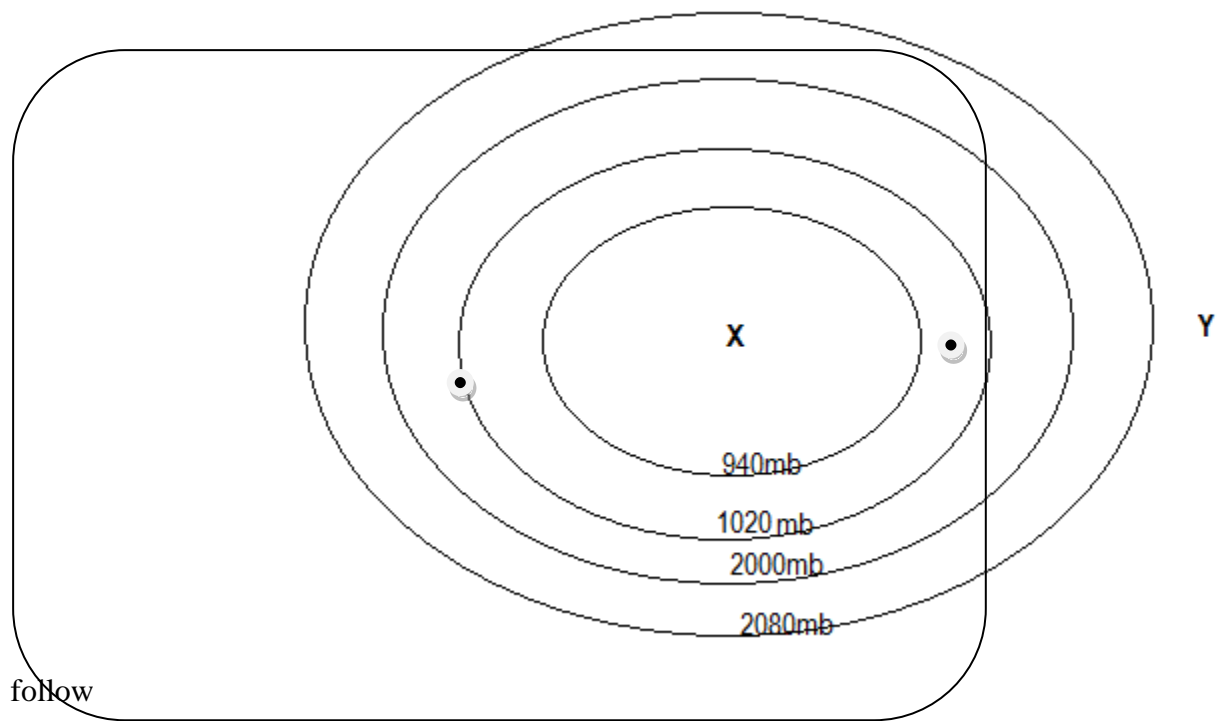
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(4 marks)

b. **Figure 2** below is a weather system represented by isobars. Use it to answer questions that



follow

(i) Name the system shown in the diagram above.

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(1 mark)

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(ii) Give **two** weather conditions associated with the system above.

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

(iii) Describe any **two** conditions for the development of the system in the diagram.

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

(iv) On the diagram, draw arrows to show the direction of wind between **X and Y**. (2 marks)

c. (i) Define “air pressure”.

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

(ii) Explain how the following factors affect air pressure:

(1) humidity

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

(2) amount of dust in the air

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

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**SECTION B (25 MARKS)**

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

4. a.(i) Explain the following ways of collecting geographical data:

1. observation

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(2 marks)

2. interviews

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(2 marks)

(ii) Discuss **two** advantages of using observation in collection of geographical data.

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(4 marks)

(iii) List any **three** uses of geographical data.

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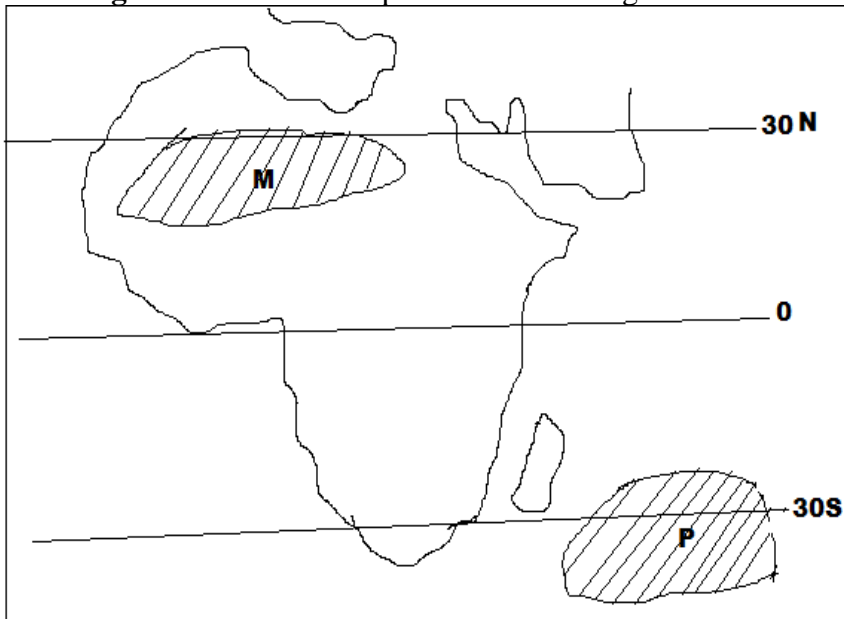
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(3 marks)



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b. **Figure 3** below is a map of Africa showing air masses. Use it to answer questions (i) to iii



(i) What type of air masses are the air masses labeled **M** and **P**.

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

**P** \_\_\_\_\_ (1 mark)

(ii) Give any **two characteristics** of the air mass labeled **M**.

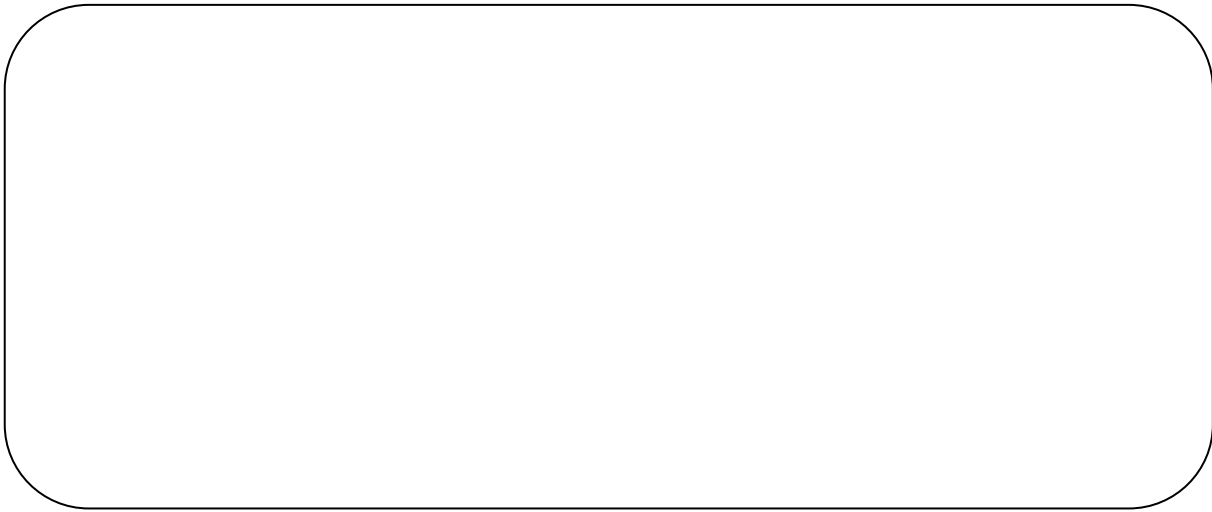
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

(iii) Explain **two** ways in which air mass labeled **P** influences the weather of Malawi.

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

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c. With the aid of a diagram, explain how an occluded front develops.



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(6 marks)

5. a. Explain how the following factors cause desertification.

(i) Air pollution

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(2 marks)

(ii) Deforestation

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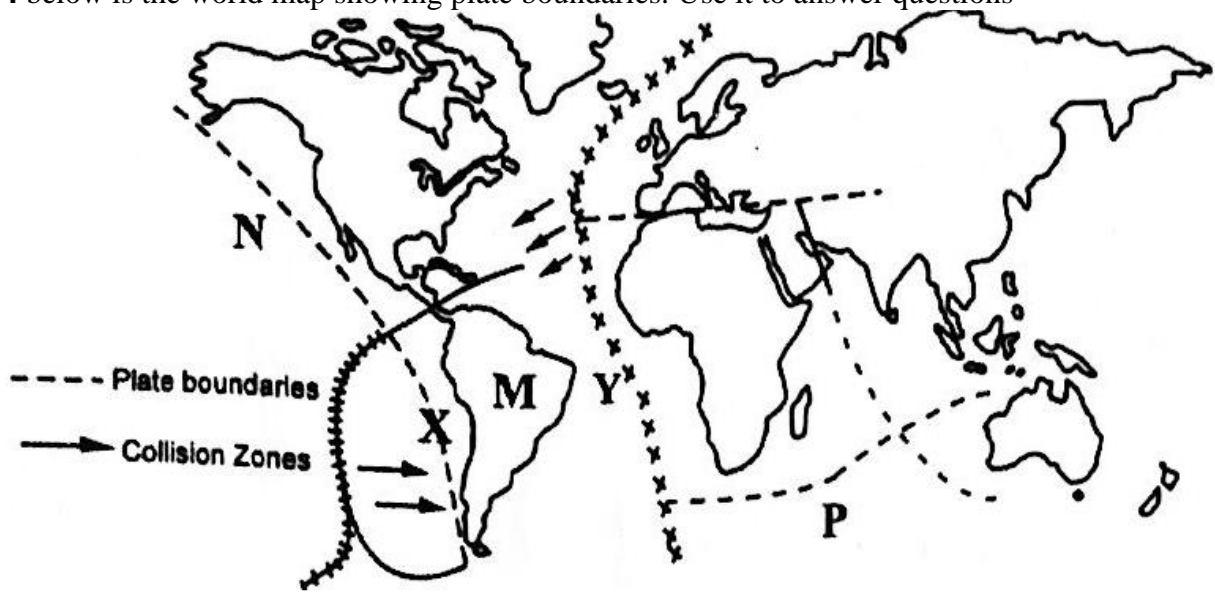
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(2 marks)

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b. **Figure 4** below is the world map showing plate boundaries. Use it to answer questions



below

(i) Name the plate labeled **M** \_\_\_\_\_ (1 mark)

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

**P** \_\_\_\_\_ (1 mark)

(ii) Name the geographical feature labeled **Y**  
\_\_\_\_\_ (1 mark)

(iii) Explain how the feature named above is formed.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

(iv) What type of plate boundary is the one labeled **X**?  
\_\_\_\_\_ (1 mark)

c. **Figure 5** is a diagram of a plant. Use it to answer questions that follow.

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(i) Name the plant shown in the figure above.

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

(ii) In which climatic region is this plant found?

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

(iii) Explain any **two** adaptations of this plant for its survival in its environment.

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

(iv) Describe any **one** problem facing Tropical Continental Climatic region.

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

d. i. Define “clouds”.

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

ii. State any **one** major form of precipitation.

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

iii. Describe any **two** conditions necessary for precipitation to occur.

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

**END OF QUESTION PAPER**