

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

- a. This paper contains 14 printed pages. Please check.
- b. There are two sections in this paper. **Section A** and **B**
- c. Answer all three questions in section **A**. In section **B**, answer only one question.
- d. Write your Examination Number on top of each page of the paper.
- e. 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.../

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

### **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)

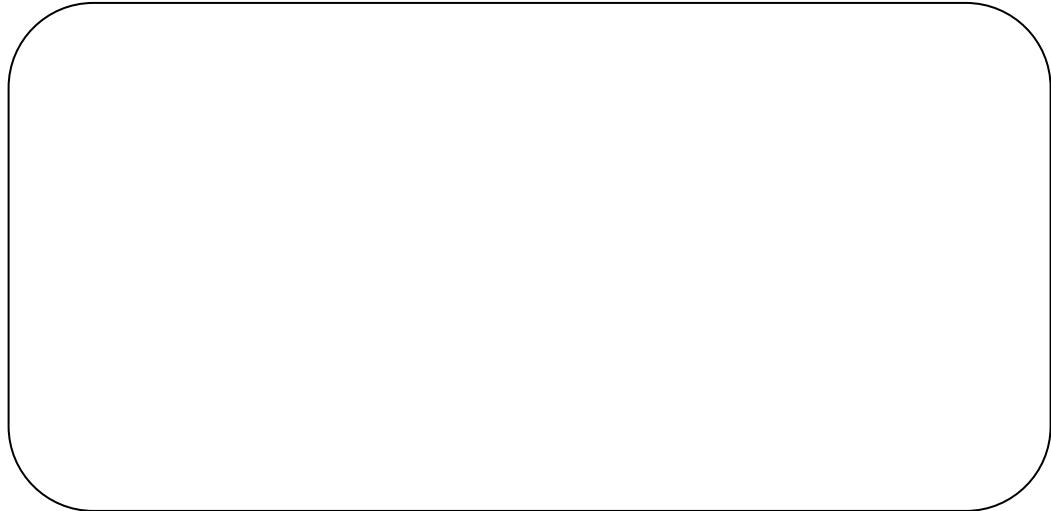
Examination Number: \_\_\_\_\_

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.

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

\_\_\_\_\_ (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)

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

2. Volcanic rocks

---

---

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

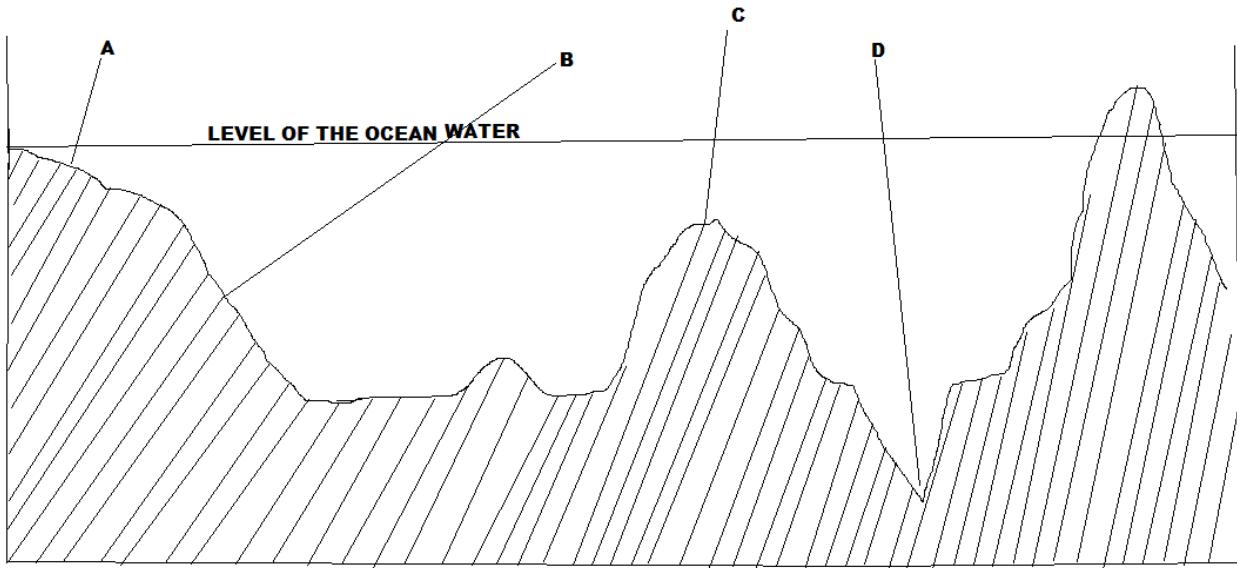
(iii) State **three** economic uses of rocks.

---

---

\_\_\_\_\_ (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.

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

---

---

---

---

(6 marks)

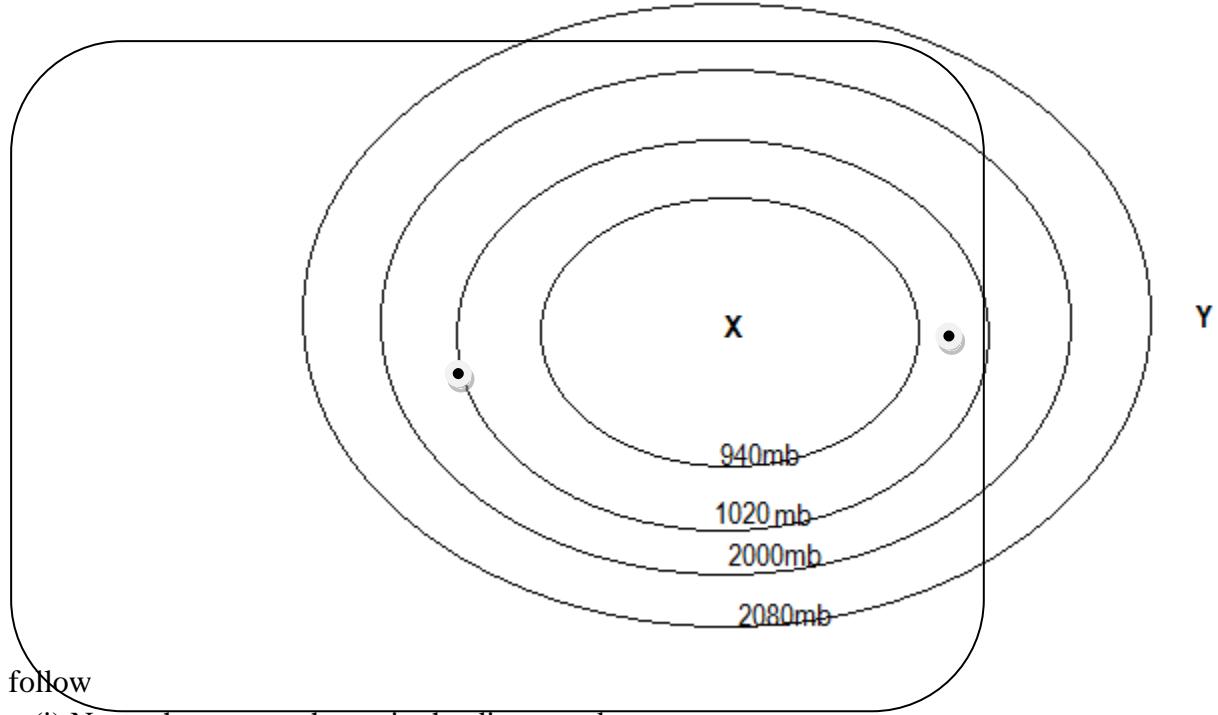
(iii) Explain how feature labeled **D** is formed.

---

---

(4 marks)

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



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

(1 mark)

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

(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)

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

### **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

---

---

(2 marks)

2. interviews

---

---

(2 marks)

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

---

---

---

---

(4 marks)

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

---

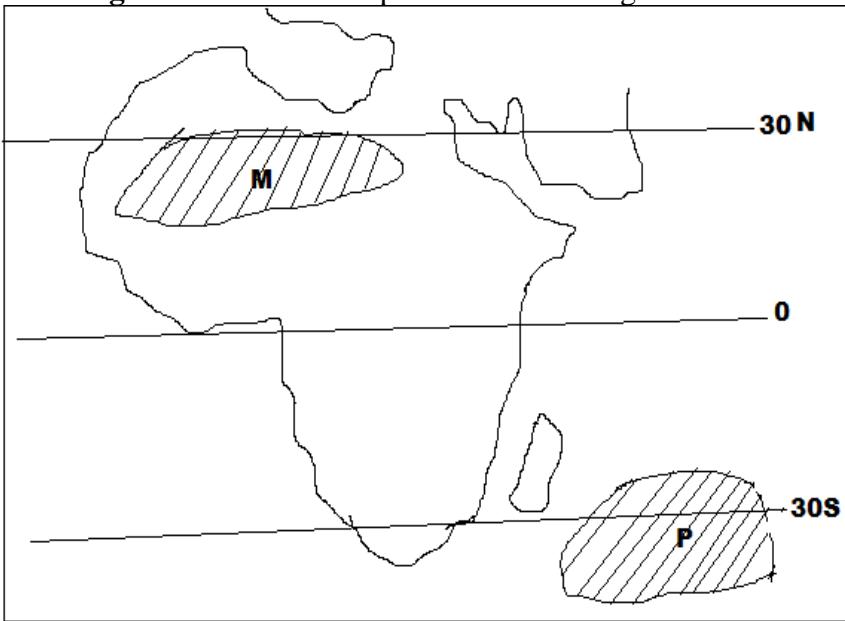
---

---

(3 marks)

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

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)

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

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

(6 marks)

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

- (i) Air pollution

---

(2 marks)

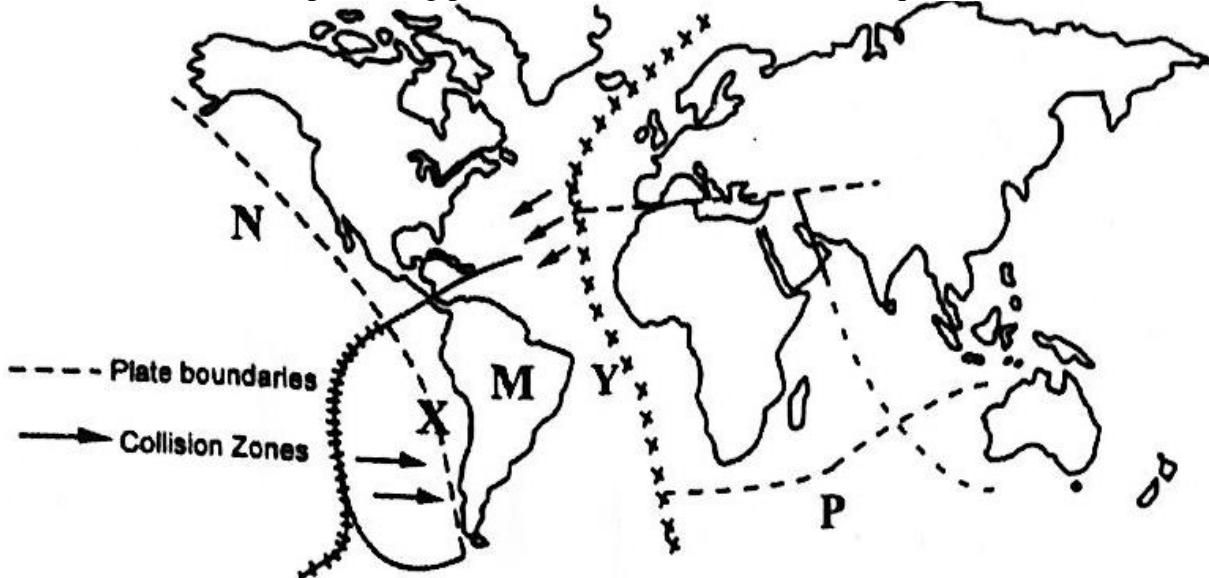
- ### (ii) Deforestation

---

(2 marks)

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

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.

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



(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”.

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

---

---

(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**