

SCHOOL NAME: \_\_\_\_\_ EXAMINAITION NO: \_\_\_\_\_



# SHIRE HIGHLANDS EDUCATION DIVISION

## 2024 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK

### EXAMINATION

## GEOGRAPHY

Monday ,25th March

Subject Number: M073/I

Time Allowed: 2½ Hours

8:00-10:30 am

### PAPER I

## MAP READING AND PHYSICAL GEOGRAPHY

### Instructions

1. This paper contains 10 printed pages. Please check.
2. This paper has five questions. Answer the questions in the spaces provided.
3. This paper has two sections, A and B.
4. Section A comprises of three questions and candidates must answer all the three questions.
5. Section B comprises of two questions and candidates must answer one question only.
6. Write your Examination number on top of the question paper.
7. In the table provided on this page, tick against the question numbers you have answered.

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

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**Section A (75 marks)**

1. Study the 1:50,000 map extract of Kasungu **Sheet 1233C4** and answer the questions that follow:

a. i. Find the **six** figure grid reference for **Borehole GK 120?**

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

ii. Identify the human feature found on grid reference **354778**

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

b. i. Identify the drainage pattern shown by Kalimira river in grid square **4385.**

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

ii. In which direction is Mavwemba river flowing?

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

c. Measure the distance of **T323** road from northing **73 in the south to a point it crosses**

**northing 76.** Present your answer to the nearest kilometre.

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

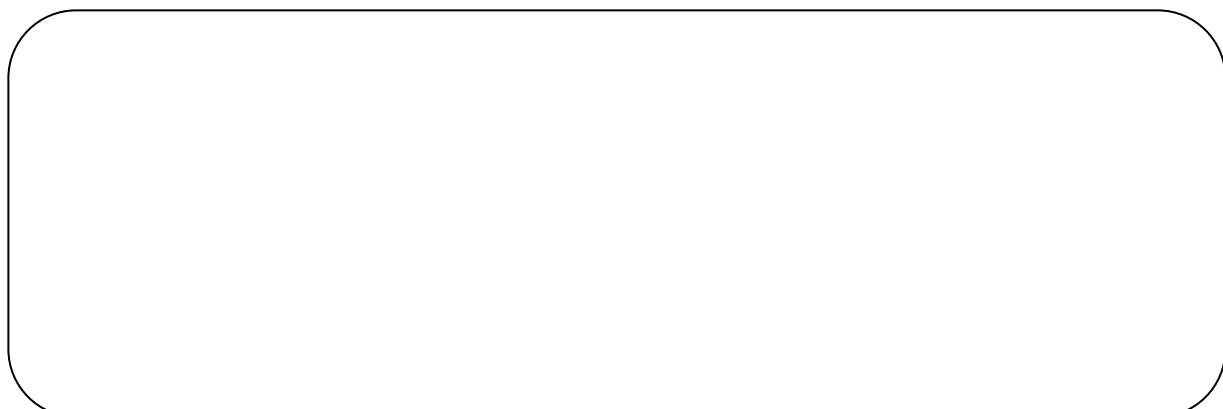
d. i. Find the bearing of **trigonometrical station 515/MWT at Kambulu** from **Borehole SM 45?**

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

ii. Find the direction of **Borehole GK 120** from **Borehole E202?**

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

e. Calculate gradient along northing **85** between easting **32 and easting 34.**



(7 marks)

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f. Account for the absence of settlements to the western side of the map?

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(2 marks)

g. Convert the scale of the map to a simple statement scale.

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(1 mark)

2. a. i. Define the term "season"?

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(1 mark)

ii. Mention **three** seasons that Malawi experiences.

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(3 marks)

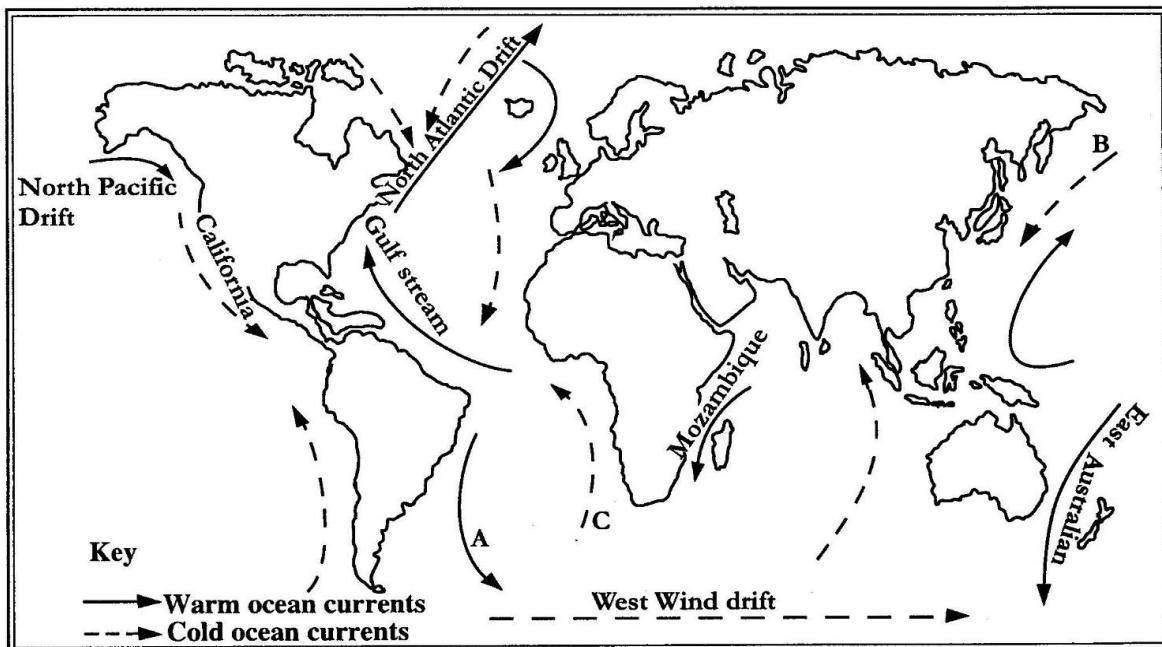
iii. Account for lack of a distinctive season along the equatorial region.

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(2 marks)

b. **Figure 1** is a diagram showing ocean currents. Use it to answer questions that follow.



i. Identify the ocean currents labeled A and B in the diagram above.

A \_\_\_\_\_

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

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ii. Explain briefly why ocean current C is associated with the following

Fog

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(2 marks)

Desertification

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(2 marks)

c. i. Describe the following terms in relation to earthquakes.

Focus \_\_\_\_\_  

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(2 marks)

Epicentre \_\_\_\_\_  

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(2 marks)

ii. Mention the instrument that is used to measure intensity of an earthquake.

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(1 mark)

iii. Explain briefly the relationship between volcanoes and earthquakes.

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(2 marks)

d. i. State any **two** human activities that encourage accumulation of greenhouse gases in the atmosphere.

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(2 marks)

ii. Explain any **two** reasons why local communities should be involved in the conservation of forest resources

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(4 marks)

3. a. i. Mention any **one** significant wetland in Malawi.

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(1 mark)

ii. Explain any **two** ways in which wetlands are a source of clean water.

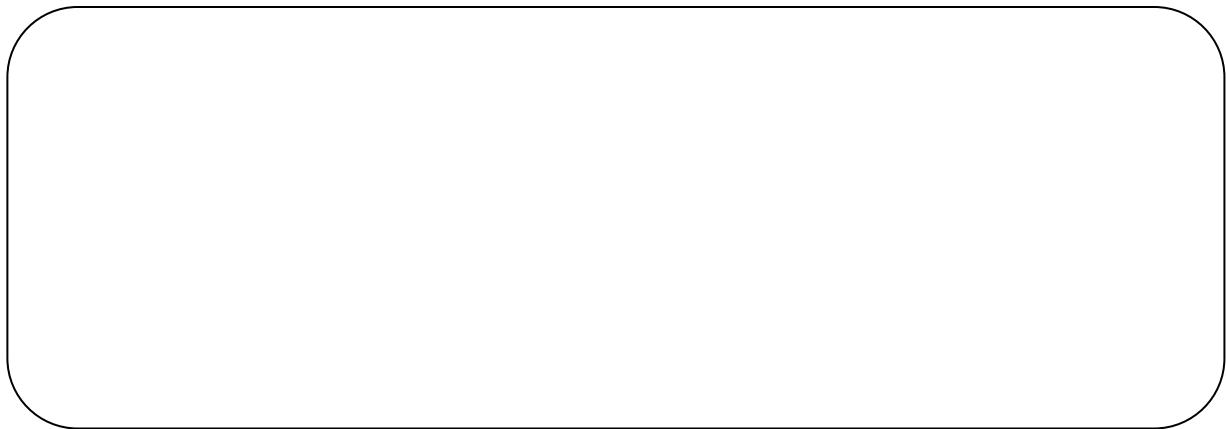
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(4 marks)

b. i. With the aid of a well-labelled diagram, describe an overthrust fold.



3 marks

(2 marks)

ii. State any **two** negative effects of fold mountains.

(2 marks)

c. Explain how each of the following evidences of Alfred Wegener support continental drift theory.

i. Jig-saw fitting of continents

(2 marks)

ii. Glacial deposits in Congo

(2 marks)

d, i. Define the term “Prime meridian”

(1 mark)

ii. Give **two** uses of meridians.

(2 marks)

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iii. Explain what happens when a traveler crosses the international dateline from West to East.

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(2 marks)

e. i. State "Ferrel's law of deflection".

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(2 marks)

ii. Explain the relationship between rotation of the earth and deflection of wind.

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(2 marks)

## SECTION B (25 MARKS)

Answer **one** question only.

4. a. i. Define the term temperature.

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(1 mark)

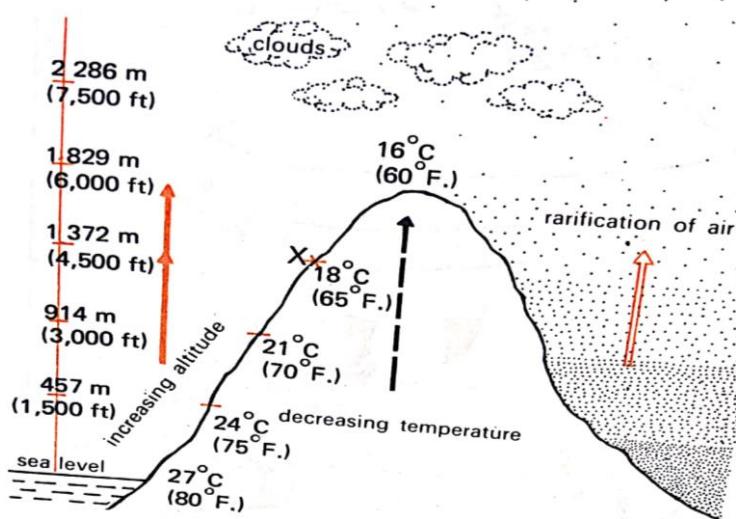
ii. Explain briefly how latitude affects temperature.

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(2 marks)

b. **Figure 2** is a diagram showing relationship between altitude and temperature. Use it to answer the questions that follow.



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i. Identify the temperature when altitude is 914 m.

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

ii. Calculate the difference in temperature between altitude 1372 m and altitude 1829 m.

2 marks

iii. Describe the relationship between altitude and temperature as shown by the diagram above.

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(2 marks)

c. **Table 1** shows climatic data for a certain weather station. Use it to answer the questions that follow.

Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temp ( $^{\circ}\text{C}$ )	21	21	21	19	16	14	15	16	20	22	23	22
Rainfall (mm)	205	220	154	36	8	0	0	4	5	9	85	131

i. Identify the type of climate represented by the table.

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(1 mark)

ii. In which hemisphere is the station found.

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(1 mark)

iii. Give a reason for your answer in question 4 c. ii. above.

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(1 mark)

iv. Draw a rainfall bar graph for all the 12 months. Use 2 cm to represent 50 mm on vertical scale and each bar representing a month should be 1 cm wide. Use the graph paper provided at the end of the question paper. (14 marks)

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5. a. i. Define the term “seafloor spreading”

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(1 mark)

ii. State any **two** evidence that support the concept of seafloor spread

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(2 marks)

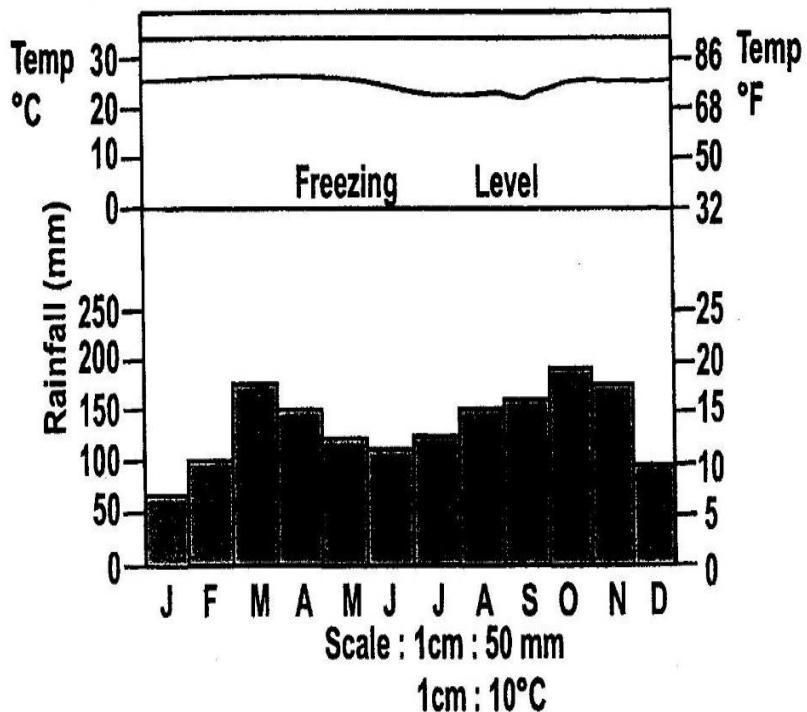
iii. Explain briefly the relationship between divergent plate movement and seafloor spread

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(2 marks)

b. **Figure 4** shows climatic regions in Africa. Use it to answer the questions that follow.



i. Identify the climate in which this town is located.

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(1 mark)

ii. Give any **two** reasons from the diagram suggesting the climate mentioned in 5 b i, above.

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(2 marks)

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iii. Describe any **two** characteristics of the vegetation in climate mentioned in 5 b. i. above.

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(4 marks)

iv. Mention any **one** country with this type of climate.

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(1 mark)

c. i. Explain any **two** causes of air pollution?

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(4 marks)

ii. Give any **two** effects of air pollution.

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(2 marks)

iii. Suggest any **two** ways of dealing with the problem of air pollution.

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(2 marks)

d. i. Define the term “prevailing winds”.

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(1 mark)

ii. Give any **two** characteristics of trade winds.

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(2 marks)

iii. Suggest any **one** problem caused by prevailing winds.

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(1 mark)

**END OF QUESTION PAPER.**

**NB:** This paper contains 8 printed pages.

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Graph paper for question 4 c. iv.

