

EXAMINATION NO: _____

CHINSAPO CLUSTER EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK EXAMINATION

GEOGRAPHY

DATE: / / 2023

Subject No: M073/I

Time Allowed; 2hrs 30 mins

PAPER I

(110 Marks)

MAP READING AND PHYSICAL GEOGRAPHY

Instructions

- This paper contains **13 printed pages**. Please check.
- The paper has **five questions**. Answer the questions in the spaces provided
- There are two sections A and B. Answer all questions in Section A and any one question in Section B.
- Maximum number of marks for the answers is indicated against each question.
- Write **your name** on top of the question paper.
- In the table provided on this page tick against the question number you have answered.
- **Hand in** your question paper when time is called to stop writing.

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

Turn Over

SECTION A (85 Marks)

Answer all questions in the spaces provided under each question

1. Study the 1:50,000 map extract of Chirobwe and use it to answer questions which follow:

- a. Find the six-figure grid reference of the following points

i. BHFC 780

(2 Mark)

ii. Trigonometric station 353/MWS

(2 Marks)

- b. Identify the landform displayed by contours at grid reference **736872**

(2 Marks)

- c. In which direction is Livulezi river flowing to?

(2 Marks)

- d. Calculate the total area covered by Bangwe forest reserve on the map. Give your answer to the nearest **km²**.

(5 Marks)

- e. Mention any two ways used to show relief on the map

(2 Marks)

- f. Find the bearing of the lone hut in grid square 6785 from BHFC 780

(3 Marks)

- g. Measure the length of M1 road as it appears on the map and give your answer to the nearest kilometre.

(2 Marks)

- h. Identify the settlement pattern displayed by Muuso 2 village

(1 Mark)

- i. What evidence is there suggesting that people living in the area of traditional authority Goodsonganya are involved in wildlife conservation.

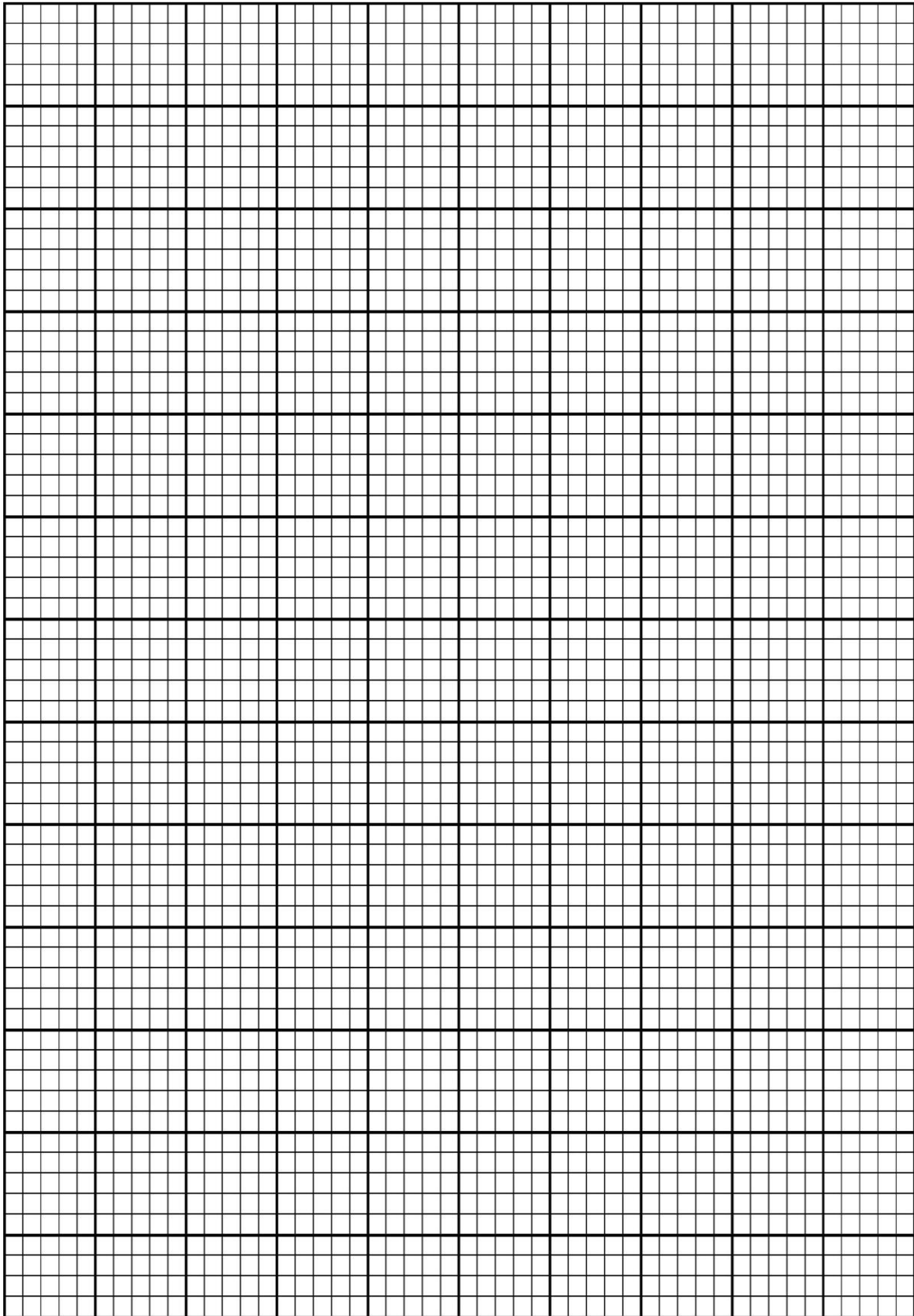
(2 Marks)

- j. Calculate the gradient along northing 90 between easting 68 and 70. Use a scale of 15m to represent 50ft.

(5 Marks)

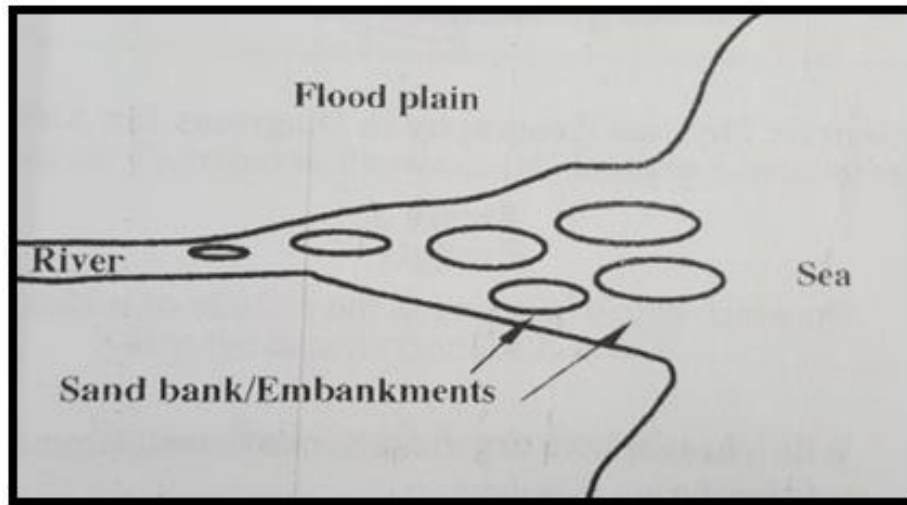
- k. On the graph paper provided on page 3, draw a cross section along northing 92 from easting 68 to 73. Use a scale of 2cm to represent 50 units on the vertical axis. On your cross section show Livulezi river.

(7 Marks)



2.

a. Figure 1 below is a type of a delta. Use it to answer questions which follow



i. Name the type of a delta illustrated in the diagram above

(1 Mark)

ii. Mention any **one** example of a river in the world which has this type of delta

(1 Marks)

iii. Mention any **three** economic importance of deltas

(3 Marks)

b. Describe the following types of folds

i. Over thrust fold

(2 Marks)

ii. Over fold

(2 Marks)

- c. Mention any three **negative** effects of tectonic processes

(3 Marks)

- d. Explain the difference between earthquake intensity and magnitude

(2 Marks)

- e. How is earthquake intensity measured?

(3 Marks)

- f. With the aid of a well labelled diagram(s) explain how block mountains are formed by compressional forces?

(4 Marks)

- g. Mention any **two** characteristics of block mountains

(2 Marks)

- h. Apart from one forming in the crust while the other forms on the surface, explain the other difference between plutonic and volcanic igneous rocks.

(2 Marks)

3.

- a. Account for the following:

- i. Occurrence of gusty winds during tropical cyclones

(2 Mark)

- ii. Low pressure along the temperate latitudes

(2 Mark)

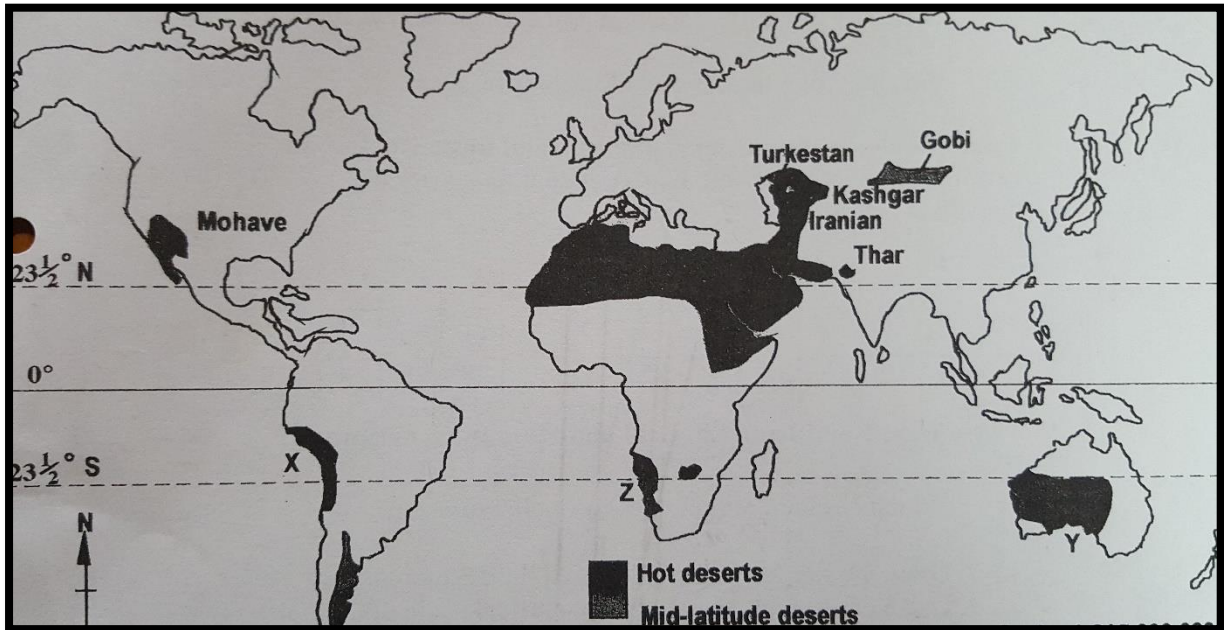
- b. Explain any **two** reasons why tropical deserts mostly occur on western sides of continents.

(4 Marks)

- c. With the aid of a well labelled diagram explain how cold front forms.

(4 Marks)

Figure 2 below is a world map showing deserts. Use it to answer questions which follow.



d. Name the deserts marked:

X _____

Y _____

Z _____

(3 Marks)

e. Describe any **two** climatic characteristics of tropical desert climate

(2 Marks)

f. Mention any **three** adaptations of plants to desert conditions

(3 Marks)

g. Classify the following rocks into clastic and non-clastic sedimentary rocks.

Rock salt, Breccia, Conglomerate, Limestone and Shale

Clastic _____

Non-clastic _____

(5 Marks)

Section B (25 Marks)

Answer **one** question only in this section in the spaces provided under each question

4.

- a. Figure 3 below shows a tree plant in a certain climatic area. Use it to answer questions which follow



- i. Identify the climatic area associated with this type of vegetation

(1 Marks)

- ii. Explain how the shape of the roots act as an adaptation of the plant to the climate mentioned in (i) above

(2 Marks)

- iii. Apart from what you can see in the picture, mention any **three** characteristics of the vegetation of this climatic area?

(3 Marks)

- b. Briefly explain the reason why Venus is the hottest planet in the solar system despite being second closest to the sun.

(2 Marks)

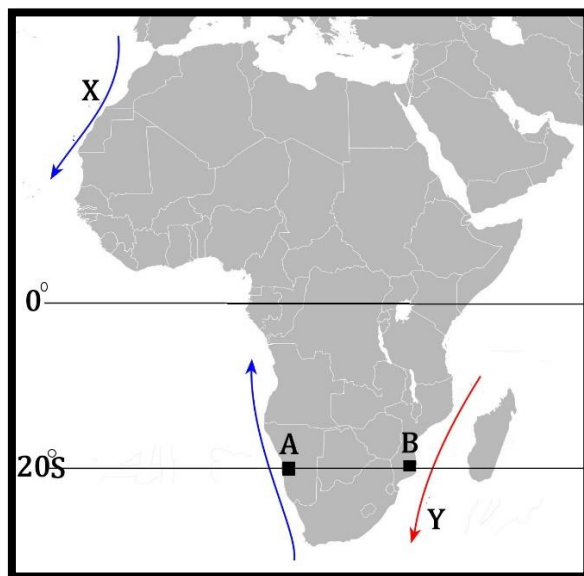
- c. Explain how a lunar eclipse proves the spherical shape of the earth.

(2 Marks)

- d. Mention any two positive effects of El Nino

(2 Marks)

- e. Figure 4 is a map of Africa showing ocean currents. Use it to answer questions which follow



- i. Name the currents marked X and Y

X _____

Y _____

(2 Marks)

- ii. Account for the difference in climate between places A and B despite being located along the same latitude.

(2 Marks)

- f. Explain how ocean currents influence the following

- a) Water transport

(2 Marks)

- b) Fishing

(2 Marks)

- g. Briefly explain how wetlands assist in purifying water

(2 Marks)

- h. Mention any **three** human activities endangering wetlands in Malawi

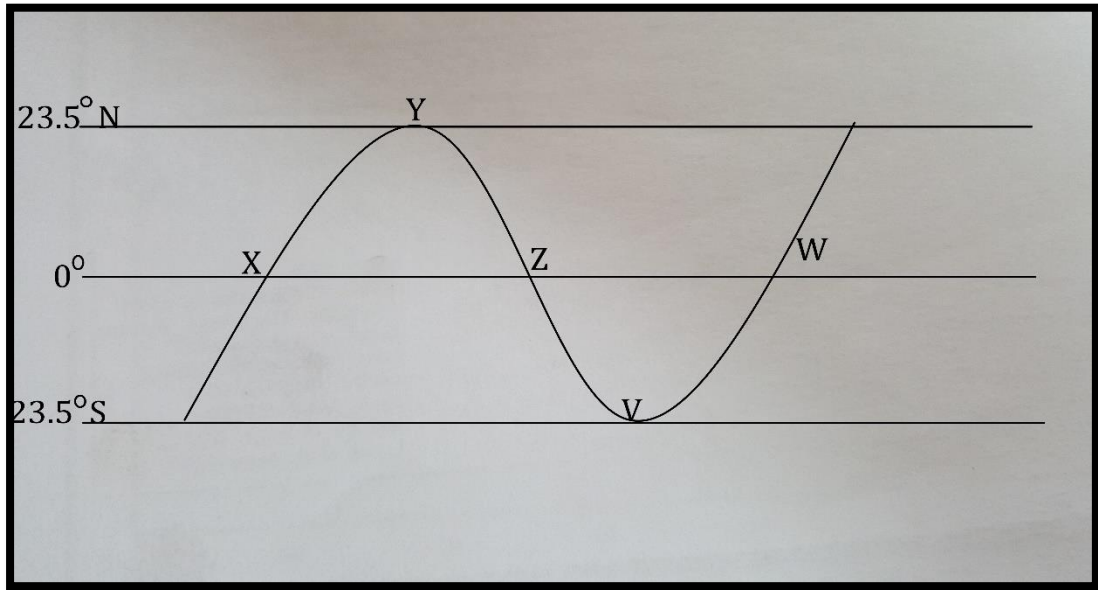
(3 Marks)

5.

- a. Define the term “seasons”

(2 Marks)

- b. Figure 5 below is a diagram showing apparent movement of the sun. use it to answer questions which follow



- 1) Name the seasons which will be experienced in the southern hemisphere at the following points

X _____
 Y _____
 Z _____

(3 Marks)

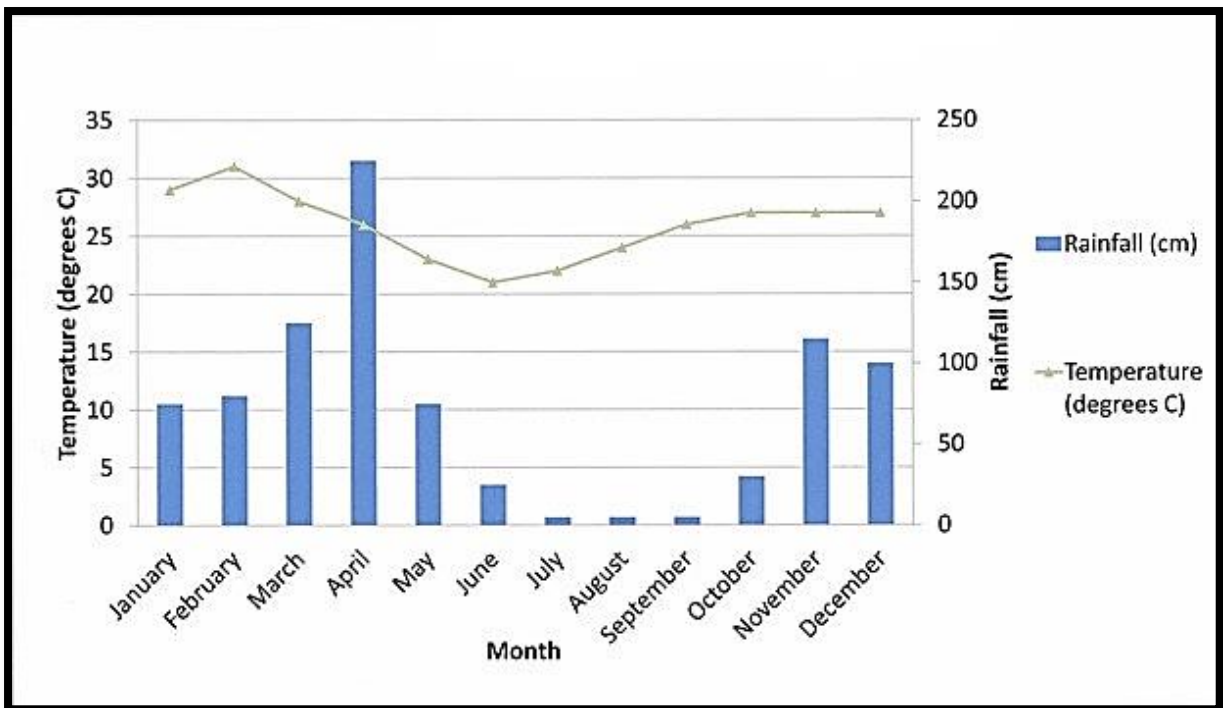
- 2) Name any **three** characteristics of the season experienced at V in the northern hemisphere.

(3 Marks)

- 3) Explain how latitude affects temperature

(2 Marks)

- c. Figure 6 below shows the temperature and rainfall readings for a certain town in Africa. Use it to answer questions which follow.



1. In which climatic region is this town located. Give a reason for your answer

(3 Marks)

2. Briefly describe the vegetation of this climatic area.

(2 Marks)

3. Mention any **three** adaptations of vegetation to the conditions of this climatic area.

(3 Marks)

- d. A match is scheduled to kick off at 2:30pm in Qatar (57°E). at what time should people in California (120°W) tune in to watch a live coverage of the match.

(5 Marks)

- e. Explain the difference between local time and standard time.

(2 Marks)

END OF QUESTION PAPER