

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)

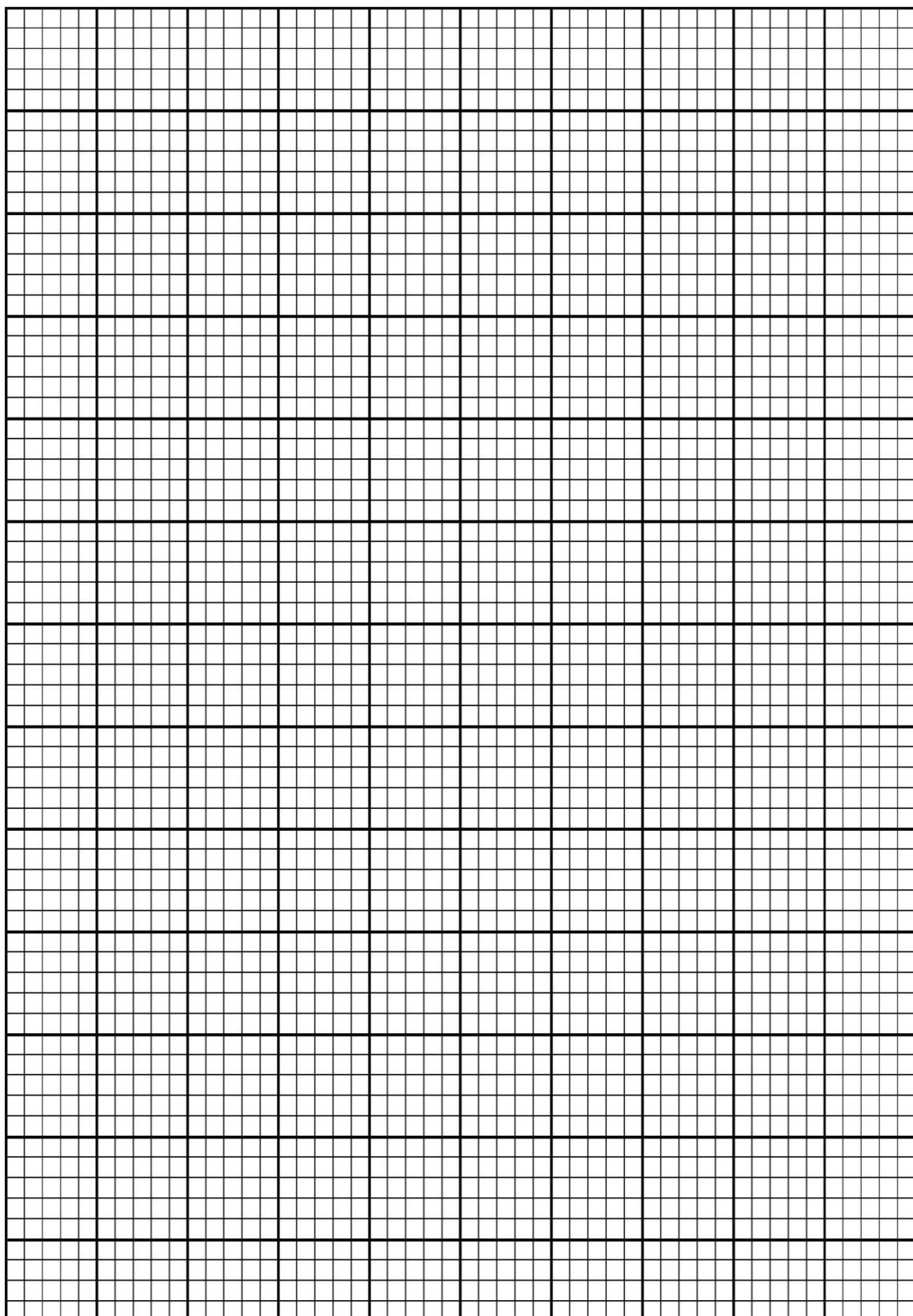
- j. Calculate the gradient along northing 90 between easting 68 and 70. Use a scale of 15m to represent 50ft.

(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.

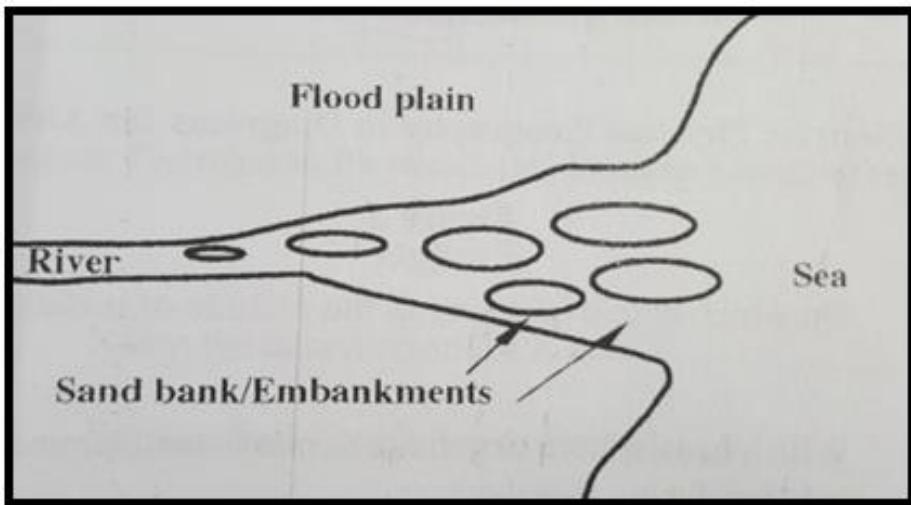
(7 Marks)

EXAMINATION NO: _____



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)

EXAMINATION NO: _____

- 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)

EXAMINATION NO: _____

- 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)

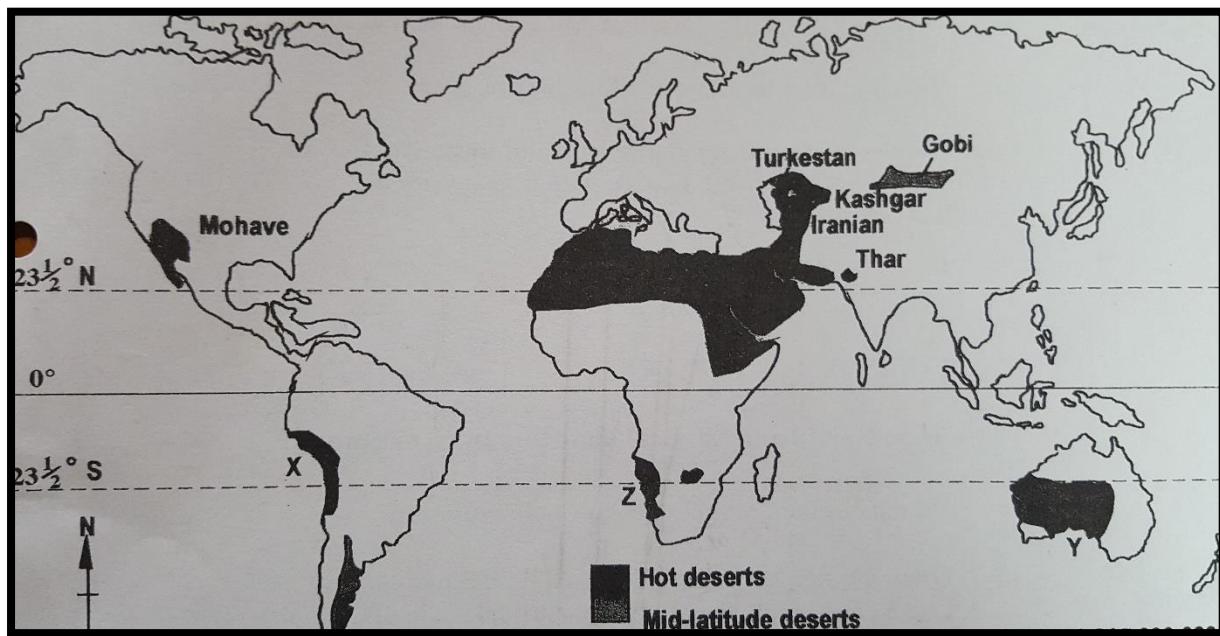
- b. Explain any **two** reasons why tropical deserts mostly occur on western sides of continents.

(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)

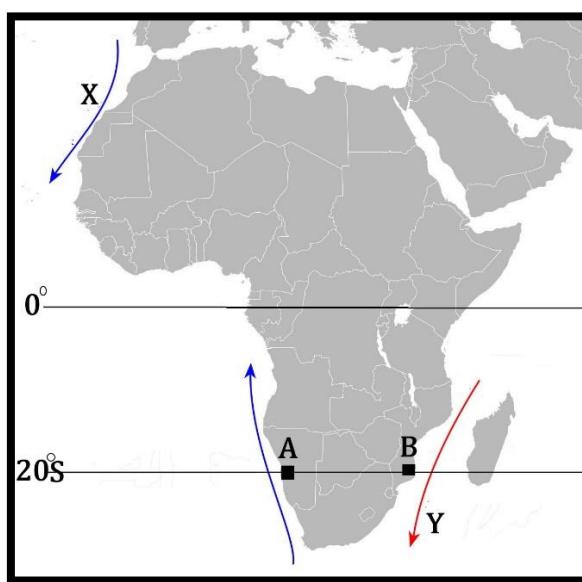
- c. Explain how a lunar eclipse proves the spherical shape of the earth.

(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)

EXAMINATION NO: _____

- 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

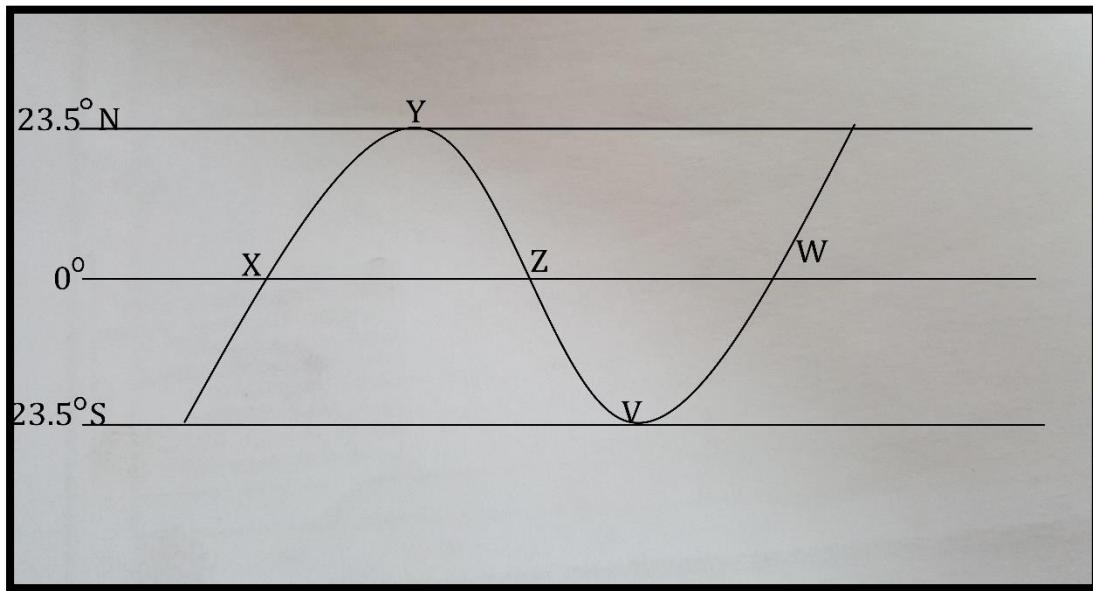
(3 Marks)

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)

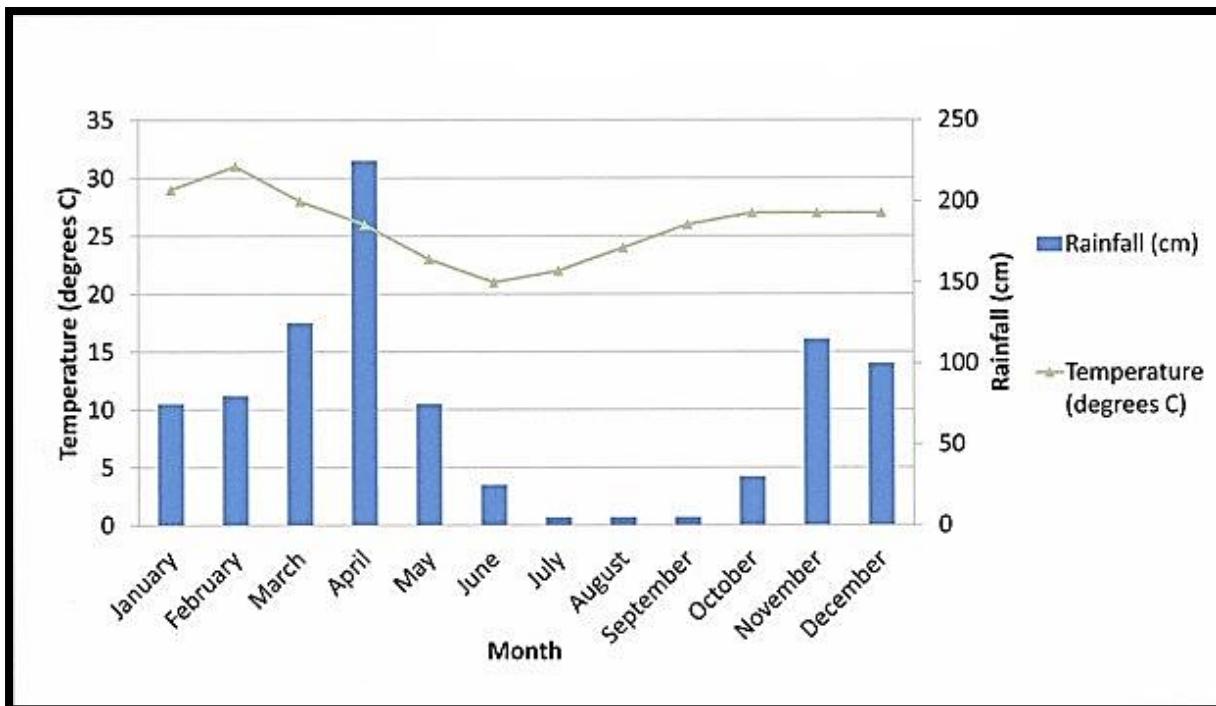
- 2) Name any **three** characteristics of the season experienced at V in the northern hemisphere.

(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)

EXAMINATION NO: _____

- 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