



EXAMINATION NO.: _____

THE MALAWI NATIONAL EXAMINATIONS BOARD
2021 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

GEOGRAPHY

Subject Number: M073/I

Monday, 8 November

Time Allowed: 2 h 30 min
8:00 – 10:30 am

PAPER I
(110 marks)

MAP READING AND PHYSICAL GEOGRAPHY

Instructions

1. This paper contains 13 printed pages. Please check.
2. The paper has **five** questions.
3. There are **two** sections, **A** and **B**.
4. Section **A** comprises **three** questions and candidates must answer all the **three** questions.
5. Section **B** comprises **two** questions and candidates must answer **one** question only.
6. Write your **Examination Number** on top of each page of the question paper.
7. 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			

© 2021 MANEB

Turn over



Section A (85 marks)

Answer **all** questions.

1. Study the **1:50,000** map extract of **Lilongwe** sheet **1433 BT** and use it to answer the following questions.

- a. (i) Find the six figure grid reference for the trigonometric station **23 NYS**.

_____ (2 marks)

- (ii) Identify the human feature found at six grid reference **654335**.

_____ (1 mark)

- b. Name any **one** river which is displaying each of the following drainage patterns on the map.

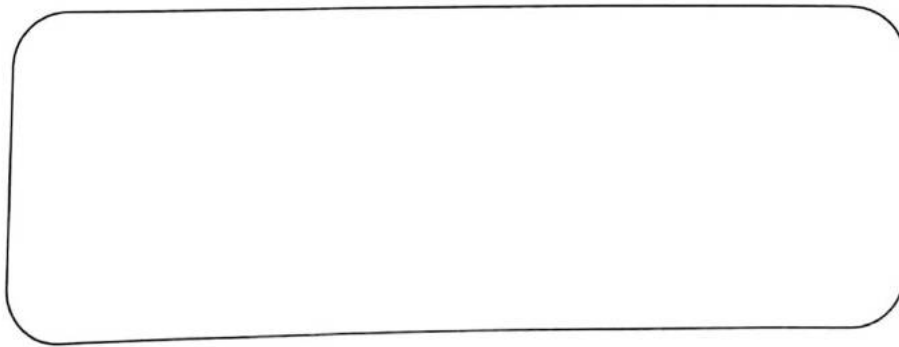
- (i) trellis: _____ (1 mark)

- (ii) dendritic: _____ (1 mark)

- c. (i) Mention the direction Kalonga **I** village from T/A Chiseka.

_____ (1 mark)

- (ii) Calculate the bearing of trigonometric point **124 MWT** from trigonometric point **126 MWT**.



(3 marks)

- d. (i) Outline any **two** land uses shown on the map.

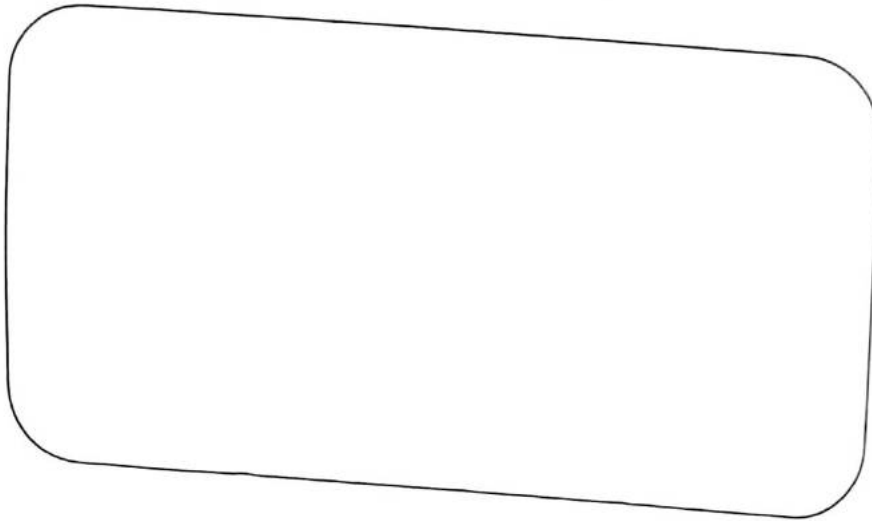
_____ (2 marks)

Continued/...

1. d. (Continued)

- (ii) Name any **two** examples of nucleated settlements shown on the map.

- e. Calculate the actual area of Dzalanyama forest as shown on the map. (2 marks)
Present your answer to the nearest kilometre.

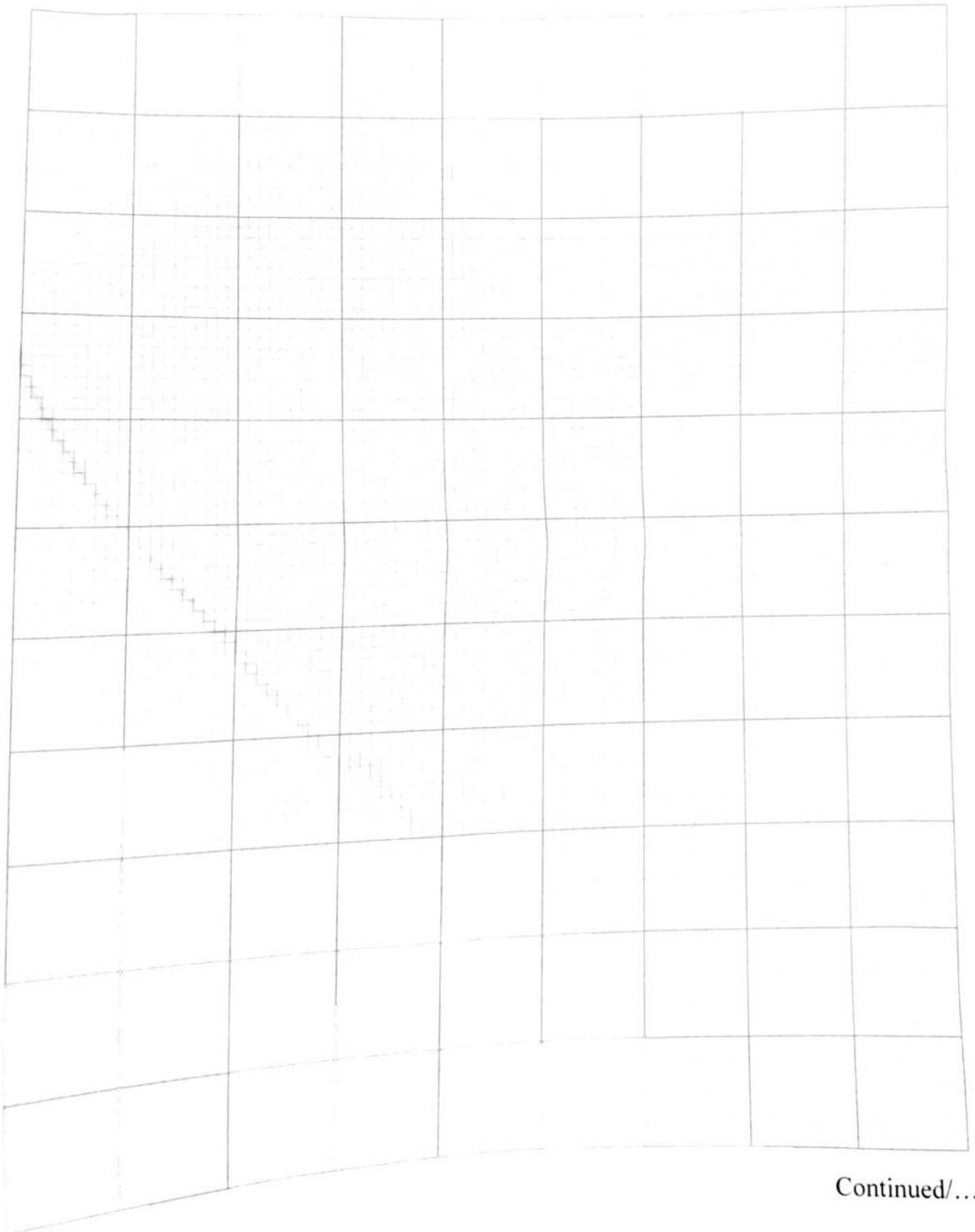


- f. (i) Describe the general topography of the area captured on the map. (6 marks)

- (ii) With the evidence from the map explain any **two** human activities that are threatening the sustainability of Kamuzu Dam. (2 marks)

- g. Draw a cross section of the land between grid references **680360** and **700 390** on the graph paper provided on **page 4**. (4 marks)
(10 marks)
Continued/...

1. (Continued)
Graph paper for answering question 1(g).



Continued/...

2021

2.

a.

Figure 1 is a world map showing plate boundaries. Use it to answer questions that follow.

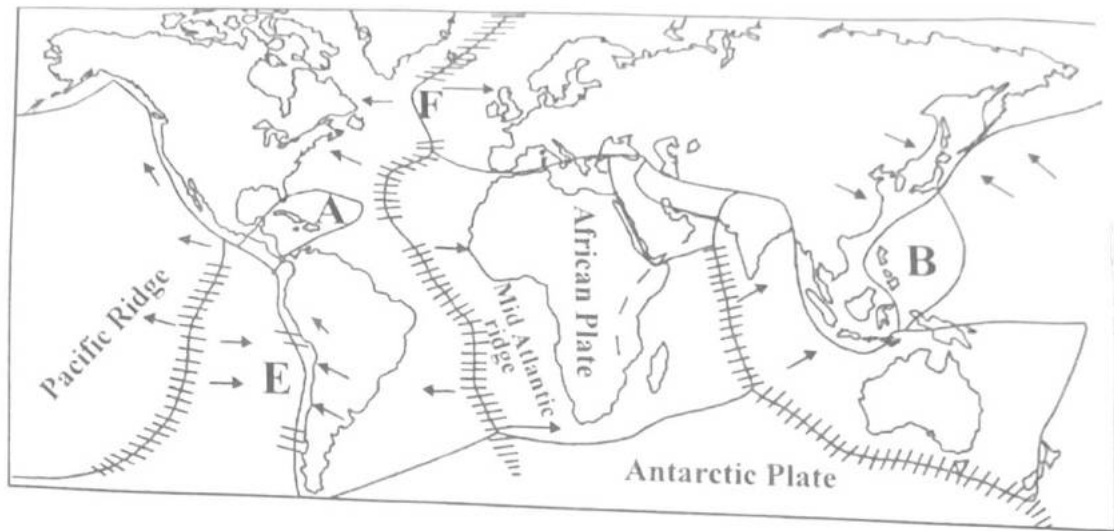


Figure 1

(i) Identify the plates labelled as follows:

✓ A:

(1 mark)

B:

(1 mark)

(ii) Describe any **two** features that have developed at plate boundary E.

✓

(4 marks)

(iii) With reference to the map, explain how the Mid Atlantic Ridge was formed along boundary F.

✓

(3 marks)

Continued/...

2. (Continued)

b. (i) Describe the following in relation to continental drift theory.

1. Pangea

(2 marks)

2. Laurasia

(2 marks)

(ii) Describe any **two** climatic pieces of evidence supporting the continental drift theory.

(4 marks)

c. Mention any **two** ways in which riverine landforms are important.

(2 marks)

d. Explain any **two** conditions necessary for formation of a delta.

(4 marks)

e. Differentiate a bay from a head land.

(2 marks)

Continued/...



- a. (i) Draw a sketch of southern Malawi.



- (ii) On the map show the following: (2 marks)
1. any **two** wetlands in southern Malawi. (2 marks)
 2. any **two** wildlife reserves in southern Malawi. (2 marks)
- (iii) Describe any **two** ways of conserving wild life species.

- b. (i) Mention the **two** types of ocean currents. (4 marks)

- (ii) Name any **two** warm ocean currents in the northern hemisphere. (2 marks)

(2 marks)
Continued/...

3. (Continued)

- c. Describe how the following factors influence the direction of ocean currents:

(i) shape of continents

(2 marks)

(ii) prevailing winds

(2 marks)

- d. State any **three** causes of land pollution.

(3 marks)

- e. Explain any **two** strategies of controlling water pollution.

(4 marks)

Continued/...

Section B (25 marks)

Answer **one** question only in this Section.

4. a. **Figure 2** is an illustration of features formed due to faulting. Use it to answer questions that follow.

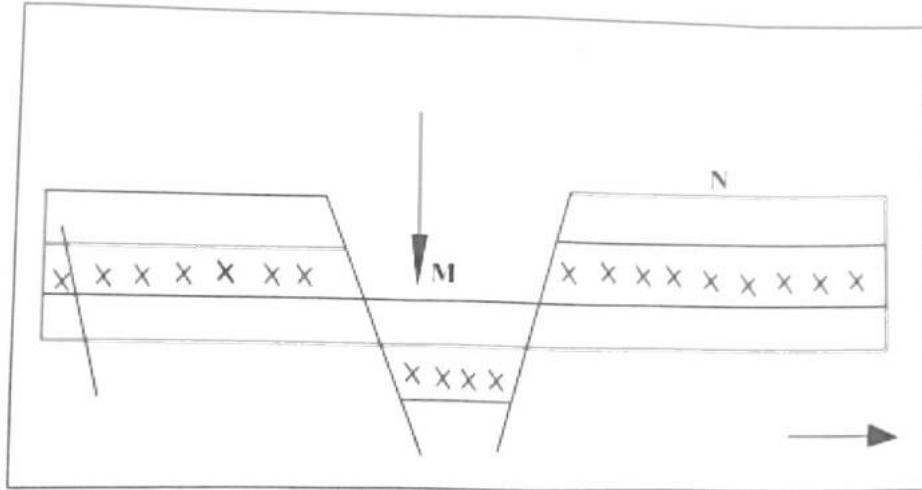


Figure 2

- (i) Identify the features labelled as follows:
- M:** _____ (1 mark)
- N:** _____ (1 mark)
- (ii) Mention the type of fault illustrated in **Figure 2**.
 _____ (1 mark)
- (iii) State the force that is responsible for the development of the fault.
 _____ (1 mark)
- (iv) Briefly explain how feature **M** is formed.

 _____ (3 marks)

Continued/...

4. (Continued)

- b. (i) Define the term "prevailing winds".

 _____ (2 marks)

- (ii) Explain the effects of the following prevailing winds on affected land masses.

1. westerlies

 _____ (2 marks)

2. polar

 _____ (2 marks)

- (iii) State any **two** characteristics of prevailing winds.

 _____ (2 marks)

- c. **Figure 3** is an illustration of a pressure map. Use it to answer questions that follow.

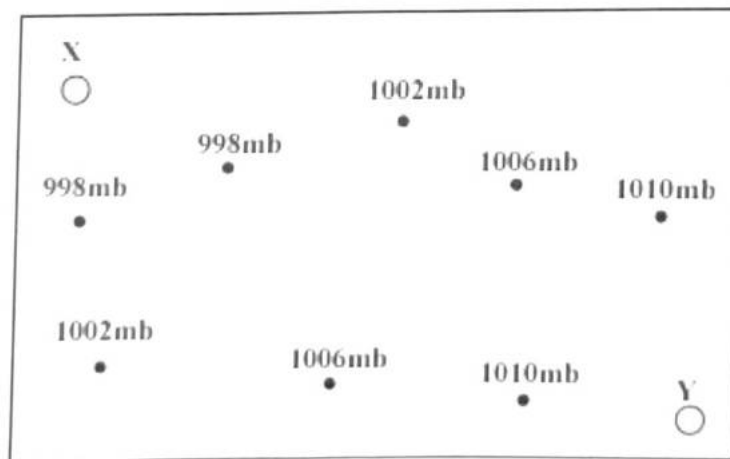


Figure 3

- (i) Draw isobars on the map (4 marks)
- (ii) Using an arrow show the direction of wind between points X and Y. (2 marks)

Continued/...

4. (Continued)

- d. (i) Define the term "clouds".

(1 mark)

- (ii) Describe the weather patterns associated with each of the following type of clouds.

1. nimbostratus

(2 marks)

2. cumulonimbus

(2 marks)

5. a.
- Figure 4**
- is a diagram showing the relationship between air pressure and altitude. Use it to answer questions that follow.

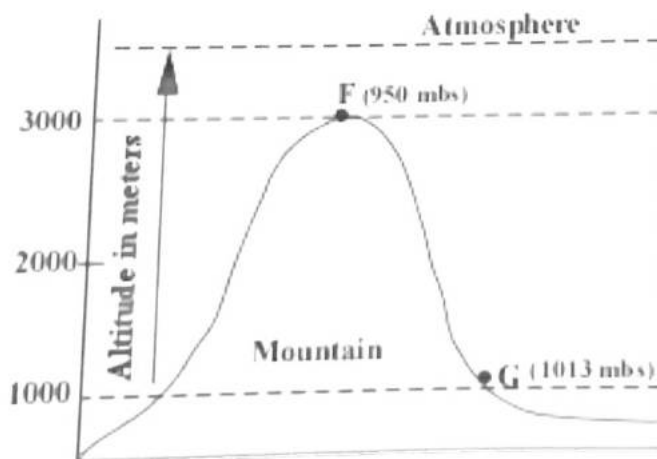


Figure 4

- (i) Find the air pressure difference between points F and G.

(2 marks)
Continued/...

5. a. (Continued)

(ii) Account for the air pressure patterns at each of the following points.

F:

(3 marks)

G:

(3 marks)

b. With the aid of a labelled diagram, describe the process for the formation of Cyclonic rainfall.

(8 marks)

Continued/...

5. (Continued)

- c. (i) Define the term "earthquake".

(1 mark)

- (ii) Describe the following terms used in the study of earthquakes:

1. magnitude

(2 marks)

2. intensity

(2 marks)

- (iii) Mention any **two** human activities which promote the occurrence of earth tremors.

(2 marks)

- (iv) State any **two** environmental impacts of earth quakes.

(2 marks)

END OF QUESTION PAPER

NB: This paper contains 13 printed pages.

