



DESHA EXAMINATION BOARD

2024 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK
EXAMINATION

GEOGRAPHY

Subject Number: M073/I

Time Allowed: 2 hours

Monday 25th March, 2024

8:00-10:00am

PAPER I

(110 marks)

MAP READING AND PHYSICAL GEOGRAPHY

Instructions

1. This paper contains 16 pages. Please check.
2. The paper has **five** questions.
3. There are **two** sections, **A** and **B**.
4. Section **A** comprises of **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 question you have answered.

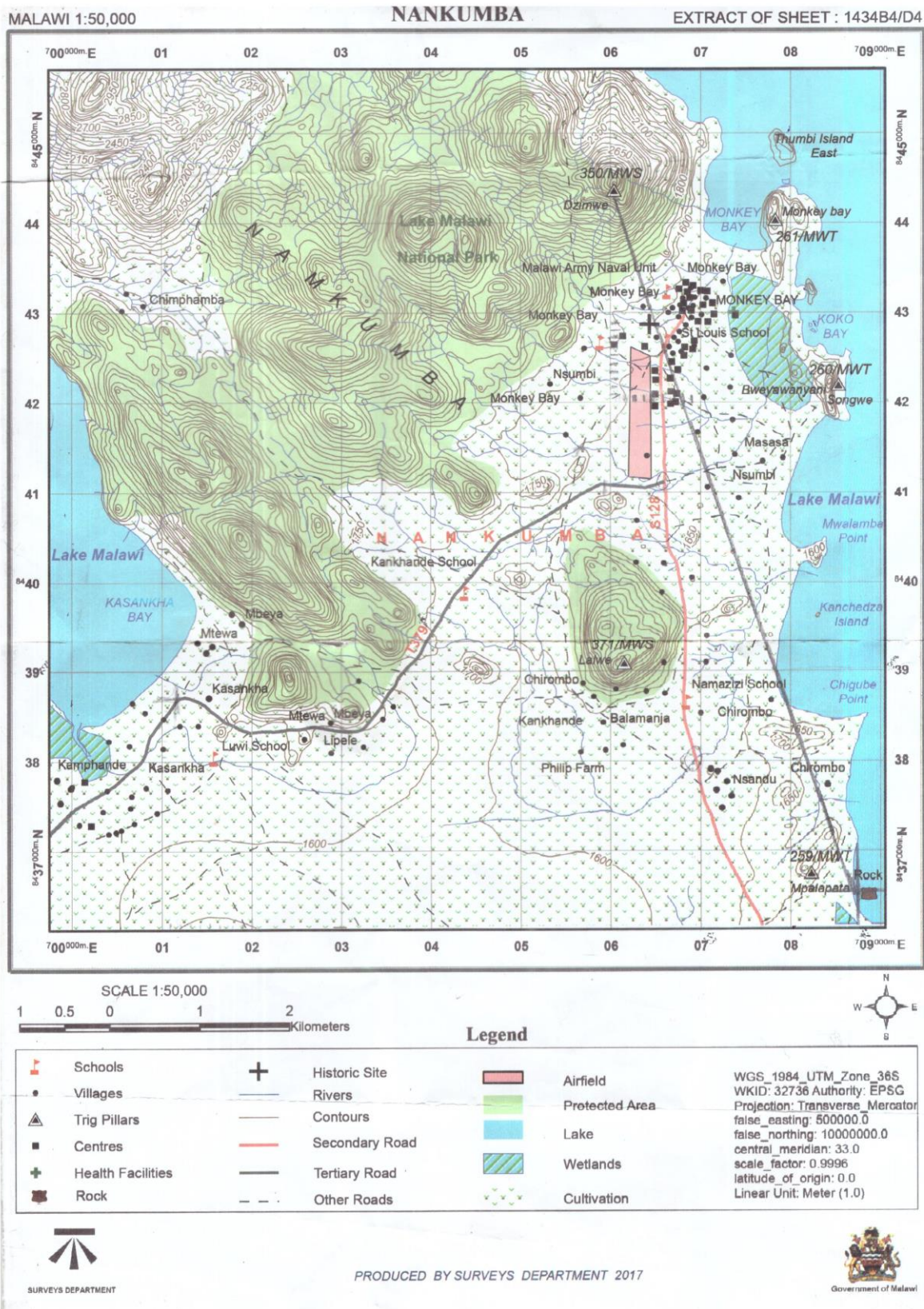
Question number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			

Turn Over

SECTION A (85 marks)

Answer all the questions in the section in the spaces provided

1. Study the **1: 50000** map extract of **Nankumba** and answer the questions that follows



- a) (i) Give the six figure grid reference of trigonometrical station **371/MWS**

(2 marks)

- (ii) Identify the human feature that is found at the six figure grid reference **083367**

(2 marks)

- b) (i) Measure the length of the road **S128**. Give your answer to the nearest kilometre

(2 marks)

- (ii) Find the direction of Luwi school from trigonometric station **350/MWS**

(2 marks)

- (iii) Mention any **two** land uses on this map of Nankumba

(2 marks)

- c) (i) Measure the bearing of the trigonometrical station **350/MWS** from trigonometrical station **260/MWT**

(2 marks)

- (ii) Give **two** reasons why there are no settlements between easting 00 and 05 and northing 41 and 45

(2 marks)

- d) (i) Calculate the area that has been covered by Lake Malawi to the west of **Easting 02**

(6 marks)

- (ii) State any **two** ways how relief has been represented on this map

(2 marks)

- (iii) Give any **two** coastal landforms shown on the map

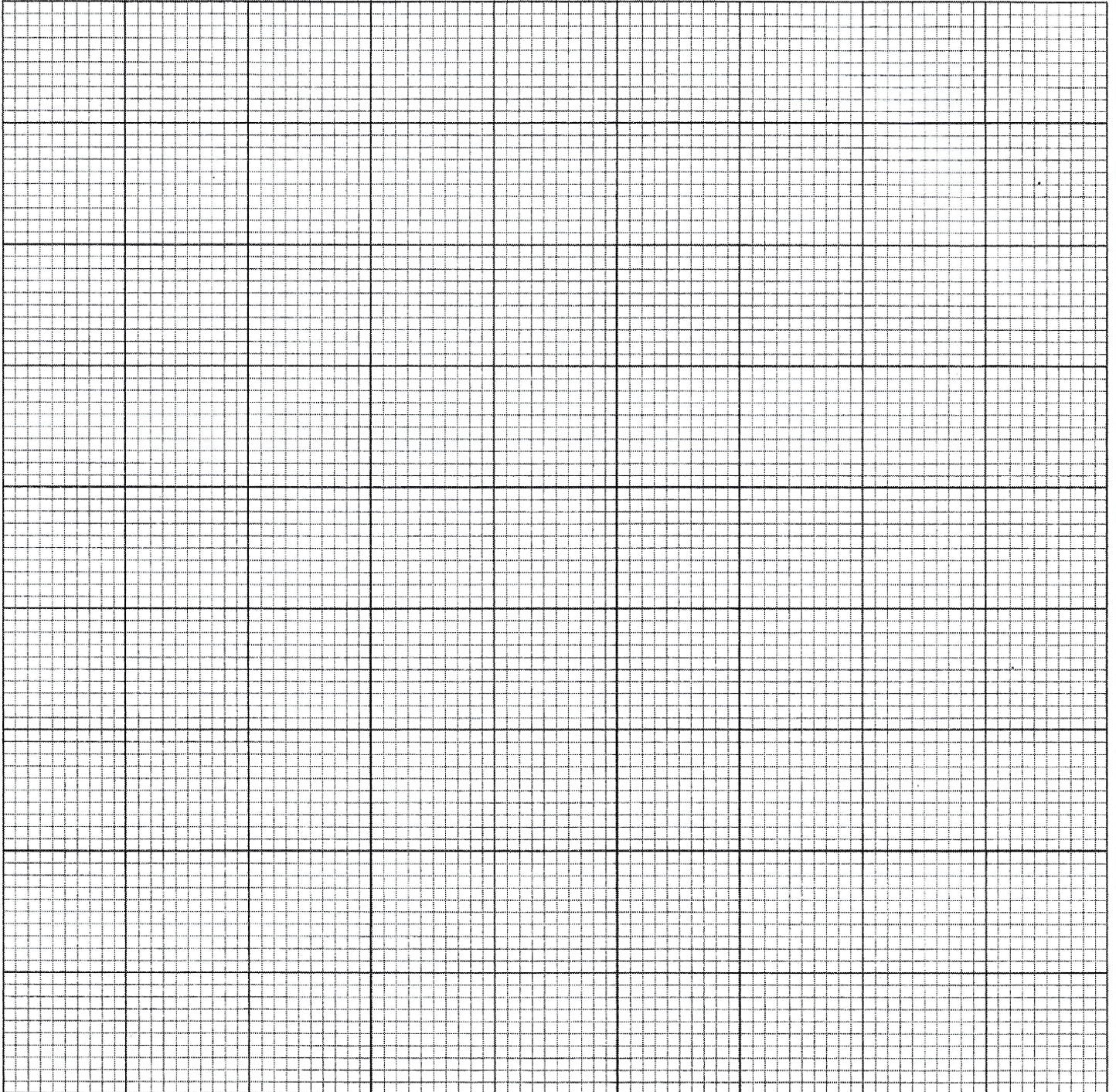
(2 marks)

- e) Enlarge the map of Nankhumba by twice its original size from **Easting 06** to **Easting 09** and **Nothing 37** to **Northing 40**

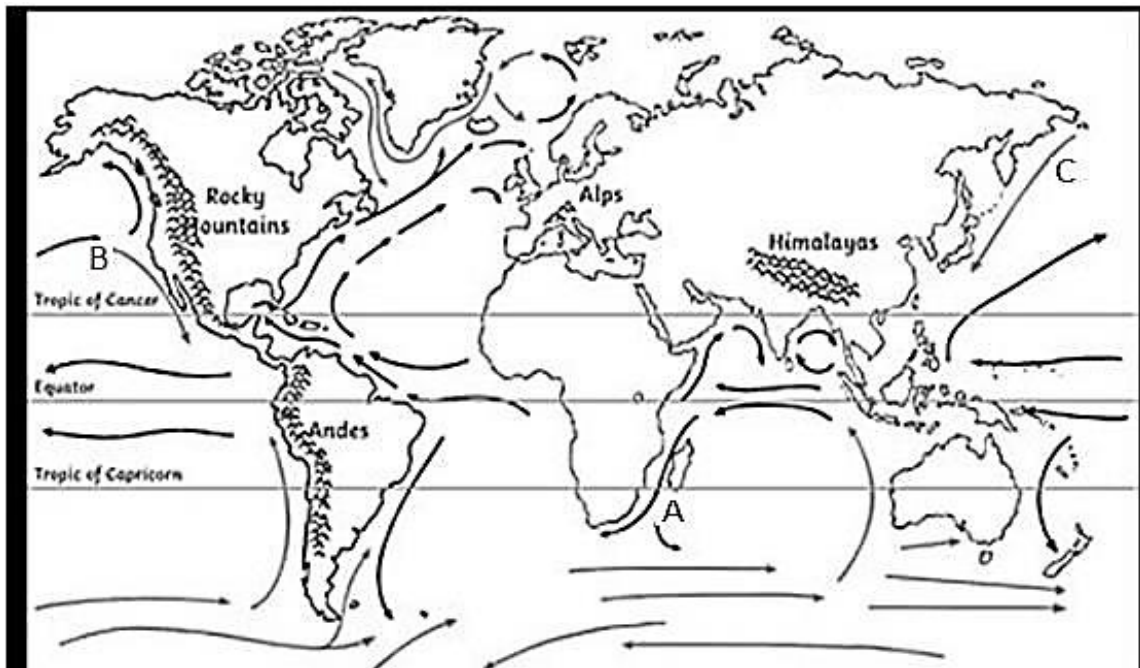
(4 marks)

On the enlarged map, show the following

- (i) The new scale (2 marks)
- (ii) Lake Malawi (2 marks)
- (iii) S128 Road (2 marks)



2. Figure 1 is map of the world showing ocean current. Use it to answer questions a (i), (ii) and (iii)



- (i) Name the ocean currents labelled **A** and **C**

A _____

(1 mark)

C _____

(1 mark)

- (ii) Explain why ocean current **B** is known as cold ocean current

(2 marks)

- (iii) How does ocean current **A** affect the adjacent landmass?

(2 marks)

- b) (i) State **two** main type of crustal plates

(2 marks)

- (ii) Describe how Mariana Trench was formed

(2 marks)

- (iii) Give **two** economic benefits of the valley in which Lake Malawi is found

(2 marks)

- (iv) State any **one** way in which levees are economically important

(1 mark)

- c) (i) Explain how volcanic igneous rocks are formed

(2 marks)

- (ii) From which rock do the following metamorphic rocks originate?

A) Gneiss

(1 mark)

B) Marble

(1 mark)

- d) (i) Describe each of the following terms in relation to plate tectonics

A) Zone of subduction

(2 marks)

B) Sea Floor Spreading

(2 marks)

- e) (i) Explain any **one** reason why most fold mountains are located on the western continental margin

(2 marks)

- (ii) Briefly state the following relief features of the ocean basin

A) Continental Shelf

(1 marks)

B) Oceanic basin

(1 marks)

3. a) (i) Define the term Desertification

(1 mark)

(ii) Explain how the following causes desertification

A) Poor agricultural practices

(2 marks)

B) Climate Change

(2 marks)

b) (i) Describe any **two** effects of climate change in Malawi

(4 marks)

(ii) Describe any **two** examples of climate change adaptation practices in Malawi

(4 marks)

(iii) Describe how greenhouse gases cause climate change

(2 marks)

- d) (i) Draw a sketch map of northern Malawi

(1 mark)

- (ii) On the map show the following

A) One wetland in the northern Malawi

(1 Mark)

B) One wild life reserve in northern Malawi

(1 mark)

- (iii) Explain any **two** effects of draining wetlands

(4 marks)

- e) (i) Define the term Waste

(1 mark)

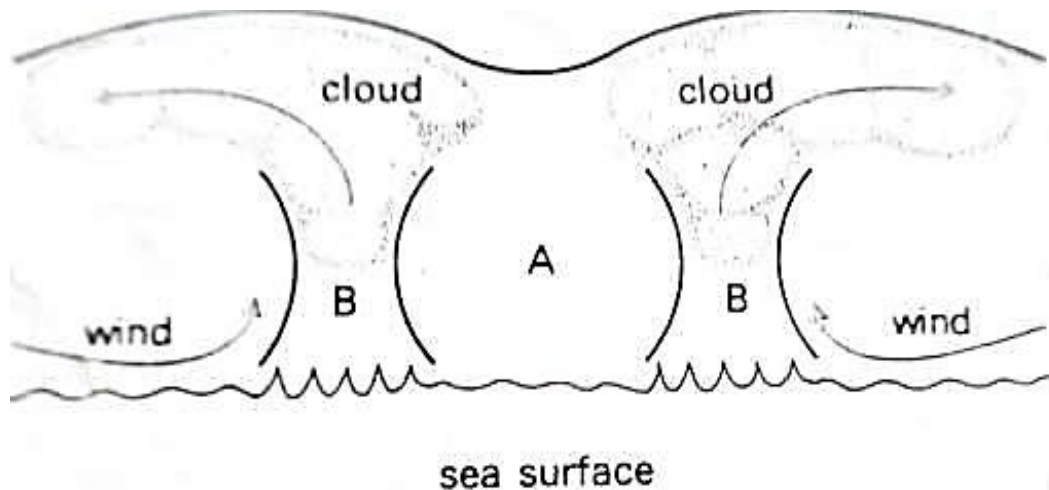
- (ii) Describe any **one** social effect of poor waste disposal

(2 marks)

SECTION B (25 marks)

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

4. Figure 2 shows the cross section of the tropical cyclone. Use it to answer the questions that follow



- a) (i) Name parts labelled **A** and **B**

A: _____
(1 mark)

B: _____
(1 mark)

- (ii) Give any **one** weather conditions experienced at **B**

(1 marks)

- b) (i) Explain why cyclones develop in the temperate latitudes of **60** degrees North and **60** degrees South of the equator

(2 mark)

- (ii) Describe any **one** negative environmental effect of tropical cyclone

(2 marks)

- c) (i) To which groups of clouds do the following belong

A) Nimbostratus

(1 mark)

B) Cirrostratus

(1 mark)

- (ii) Describe Ferrell's Law of Motion

(3 marks)

- (iii) Explain the impact of the Intertropical Convergence Zone on the climate of Malawi

(2 marks)

- (iv) Explain why the Leeward sides of mountains are generally dry

(2 marks)

- d) Table 1 shows temperature and rainfall statistics of a climate B. use it to answer questions that follow

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Temp °C	20	22	25	30	32	33	31	30	30	30	30	30
Rainfall (mm)	0	0	0	2	3	25	77	83	37	0	0	0

Total rainfall: 227mm
Annual temperature range: 13°C

- (i) Identify the climatic region represented by the data in the table

(1 mark)

- (ii) State **two** countries in Africa that experience this type of climate

(2 marks)

- (iii) Describe any **two** characteristics of this type of climate

(4 marks)

- (iv) Describe any **one** challenge affecting agricultural development in the areas experiencing this type of climate

(2 marks)

5. a) (i) With the aid of a diagram, describe a cold occluded front

(5 marks)

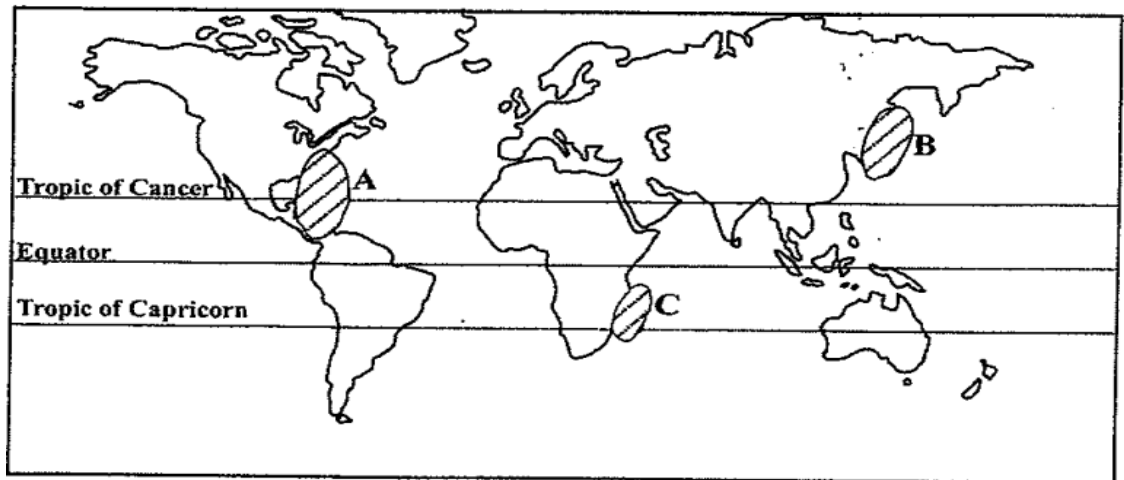
- (ii) Explain how prevailing winds are influenced by pressure belts

(2 marks)

- (iii) Explain the impact of the El Nino on the climate of Malawi

(2 Marks)

- c) Figure 3 shows the location of some tropical cyclones on a world map. Use it to answer questions that follows.



- (i) Name the tropical cyclones marked **A**, **B** and **C**

A: _____

(1 mark)

B: _____

(1 mark)

C: _____

(1 mark)

- (ii) Explain any **one** effect of tropical cyclone **C** on the Mozambican coastal areas

(2 marks)

- (iii) Describe any **two** conditions necessary for the development of a tropical cyclone

(4 marks)

- d) Picture 1 shows the vegetation experienced in a certain type of climate. Use it to answer questions that follow



- (i) Identify the type of climate that has this type of vegetation

(1 mark)

- (ii) Mention any **two** countries that experiences this climate in south America

(2 marks)

- (iii) Explain any **two** adaptations of the vegetation in the picture above

(4 marks)

END OF QUESTION PAPER