



# DESHA EXAMINATION BOARD

## 2024 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK EXAMINATION

### GEOGRAPHY

**Subject Number: M073/I**

**Time Allowed: 2 hours**

**Monday 25<sup>th</sup> March, 2024**

**8:00-10:00am**

### **PAPER I**

(110 marks)

### **MAP READING AND PHYSICAL GEOGRAPHY**

#### **Instructions**

- This paper contains 16 pages. Please check.**
- The paper has five questions.**
- There are two sections, A and B.**
- Section A comprises of three questions and candidates must answer all the three questions.**
- Section B comprises two questions and candidates must answer one question only.**
- Write your Examination Number on top of each page of the question paper.**
- In the table provided on this page tick against the number of question you have answered.**

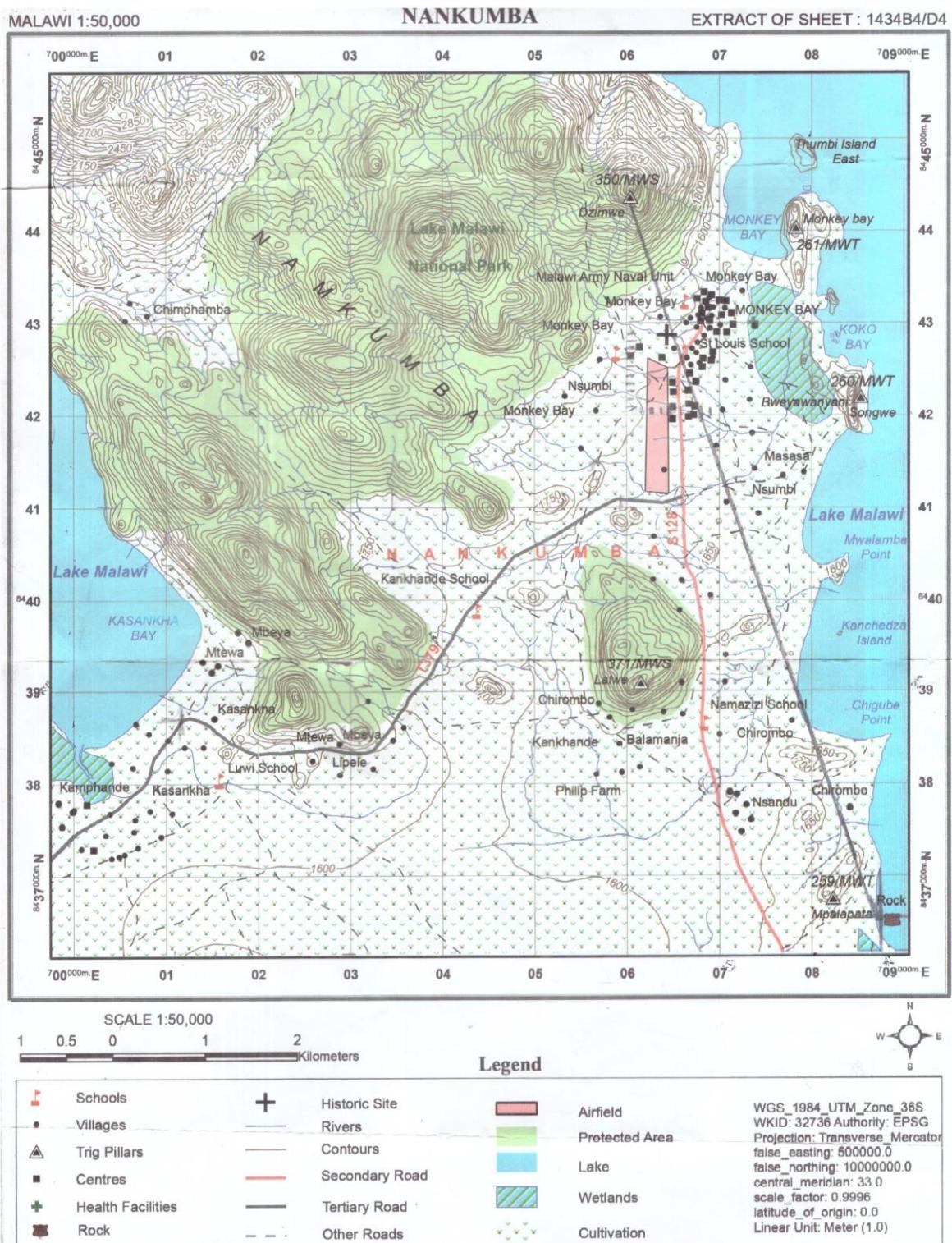
<b>Question number</b>	<b>Tick if answered</b>	<b>Do not write in these columns</b>	
<b>1</b>			
<b>2</b>			
<b>3</b>			
<b>4</b>			
<b>5</b>			

**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**

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(2 marks)

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

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(2 marks)

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

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(2 marks)

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

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(2 marks)

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

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(2 marks)

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

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(2 marks)

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

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(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

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**(2 marks)**

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

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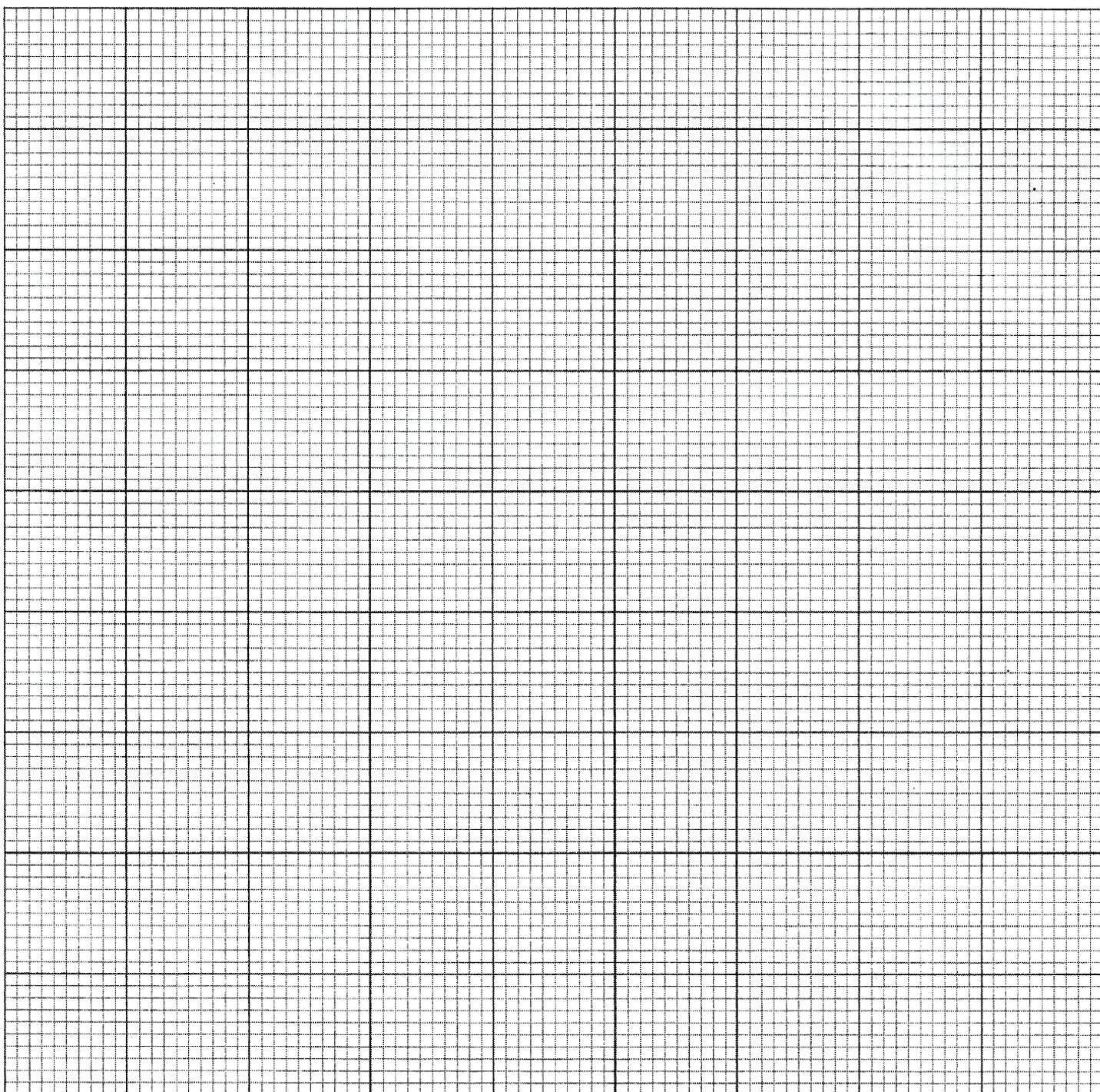
**(2 marks)**

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

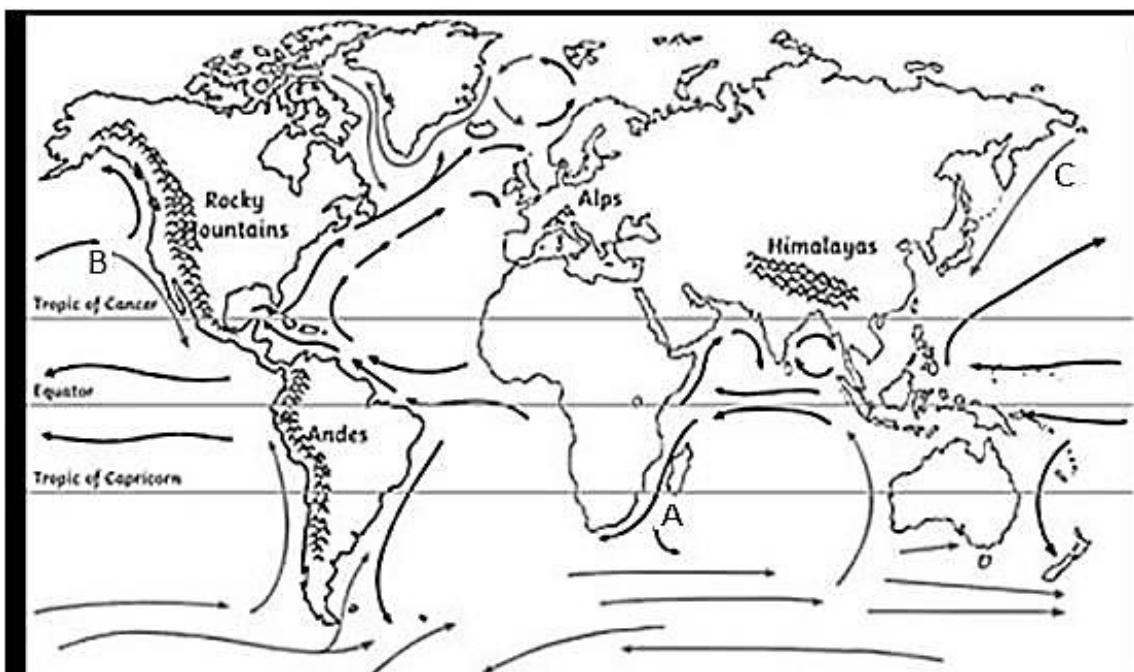
**(4 marks)**

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

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**(2 marks)**

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

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**(2 marks)**

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

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**(2 marks)**

- (ii) Describe how Mariana Trench was formed

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**(2 marks)**

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

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**(2 marks)**

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

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**(1 mark)**

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

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**(2 marks)**

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

A) Gneiss

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**(1 mark)**

B) Marble

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**(1 mark)**

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

A) Zone of subduction

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**(2 marks)**

B) Sea Floor Spreading

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**(2 marks)**

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

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**(2 marks)**

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

A) Continental Shelf

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**(1 marks)**

B) Oceanic basin

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**(1 marks)**

3. a) (i) Define the term Desertification

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**(1 mark)**

- (ii) Explain how the following causes desertification

A) Poor agricultural practices

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**(2 marks)**

B) Climate Change

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**(2 marks)**

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

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**(4 marks)**

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

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**(4 marks)**

- (iii) Describe how greenhouse gases cause climate change

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**(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

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**(4 marks)**

e) (i) Define the term Waste

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**(1 mark)**

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

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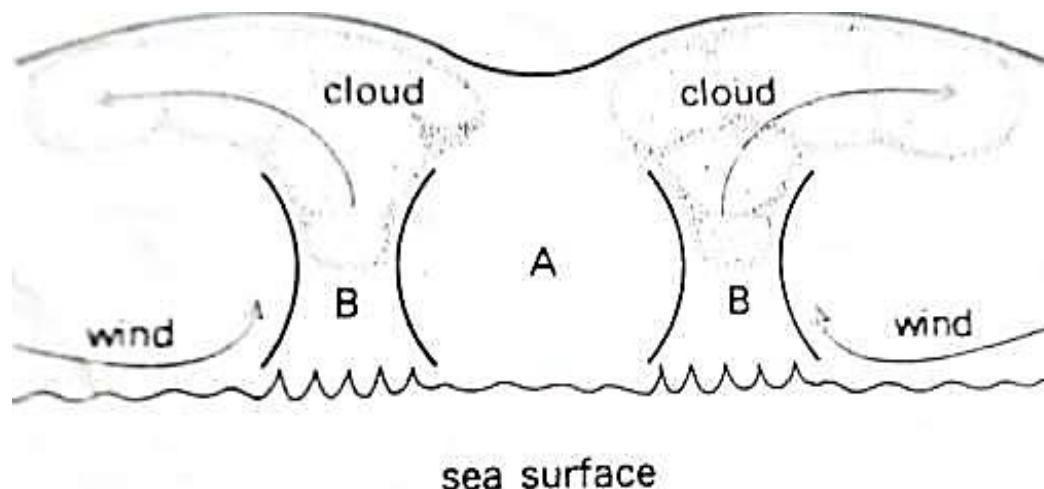
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**(2 marks)**

## 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**

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**(1 marks)**

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

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**(2 mark)**

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

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**(2 marks)**

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

A) Nimbostratus

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**(1 mark)**

B) Cirrostratus

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**(1 mark)**

- (ii) Describe Ferrell's Law of Motion

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**(3 marks)**

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

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**(2 marks)**

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

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**(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

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(1 mark)

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

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(2 marks)

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

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(4 marks)

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

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(2 marks)

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

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**(5 marks)**

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

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**(2 marks)**

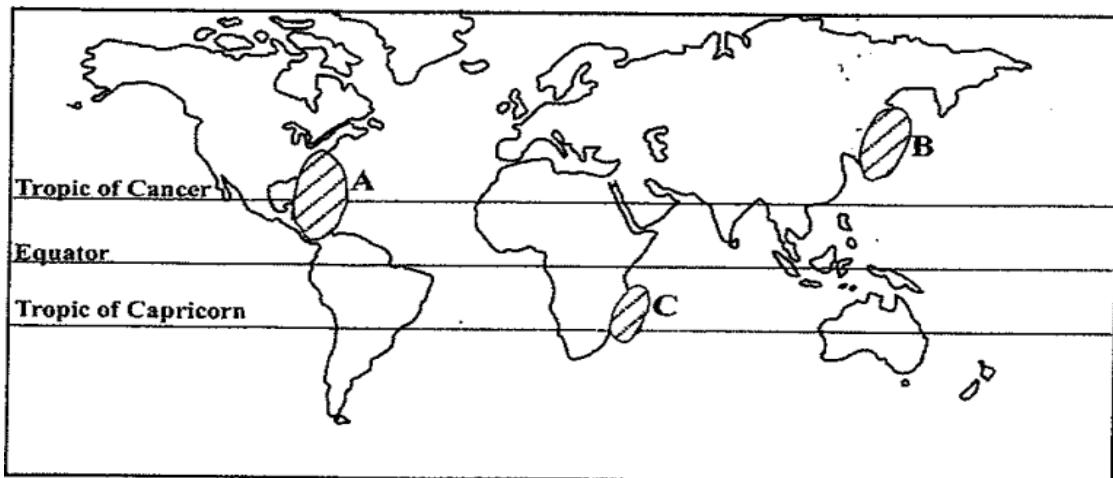
- (iii) Explain the impact of the El Nino on the climate of Malawi

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**(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

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**(2 marks)**

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

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**(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

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**(1 mark)**

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

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**(2 marks)**

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

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**(4 marks)**

**END OF QUESTION PAPER**