

THE MALAWI NATIONAL EXAMINATIONS BOARD

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

GEOGRAPHY

Subject Number: M073/I

Time Allowed: 2 h 30 min

8:00 - 10:30 am

Tuesday, 11 July

PAPER I

(100 marks)

MAP READING AND PHYSICAL GEOGRAPHY

Instructions

- This paper contains 13 printed pages. Please check.
- 2. The paper has five questions.
- 3. There are **two** sections, **A** and **B**. Follow the instructions for each section carefully.
- 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 the question you have answered.
- Hand in the question paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns
1	1 =,	
2		
3		
4		п
5		



EXAMINATION NO.:____

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Continued/...

Section A (75 marks)

Answer all the questions in this section in the spaces provided.

a.	(i)	Identify the human made feature located on six-figure grid	reference
		777985.	
		<u> </u>	24
	2000	L Sungflui	(1 mar
	(ii)	Find the six-figure grid reference for the trigonometric poir	nt
		Chilwa 1060.	
			(2 mark
b.	Calc	ulate the bearing of trigonometric station 1060 from trigonon	netric
	statio	on 629.	
	-		
	-		(3 mark
c.		ount for the distribution of settlements in the region captured ne map. Give any one point.	
		Lettings, Joseph Compatible	ab ar
			(3 mark
d.		ain any one environmental challenge which is experienced esidents in the area shown on the map.	

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1. (Continued)

e.	Find the area of Lake Chilwa captured on the map within the area occurring
	under T/A Kuntumanji, presenting the answer to the nearest kilometre.

(6 marks)

f. Calculate the gradient of the S143 road from easting 71 to easting 74.

(7 marks)

2.	a.	(i)	Describe the term 'meander" in relation to river profiles.	
				(2 marks)

 (ii) With the aid of diagrams describe the process leading to formation of ox-bow lakes.

(9 marks)

b. Figure 1 is a diagram showing coastal features.

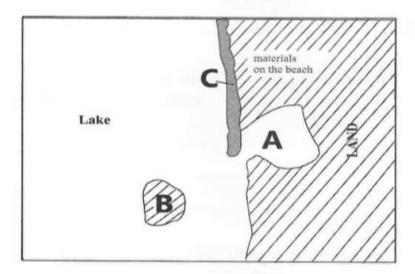


Figure 1

(i) Identify the coastal features labelled B and C.

B:	(1 mark)

C: ______(1 mark)

Continued/...



- 2. b. (Continued)
 - (ii) Give any two examples of coastal feature A occurring along Lake Malawi.

(2 marks)

(iii) Describe the process through which coastal feature B is formed.

(3 marks)

c. Figure 2 is an illustration of a plate boundary. Use it to answer questions that follow.

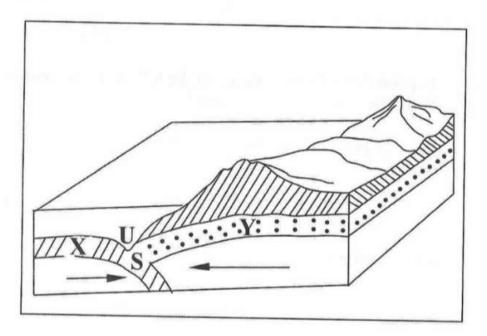


Figure 2

- (i) What type of plate is plate Y?
- (ii) Identify the geological feature labelled U.

(1 mark)

(1 mark)



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2.	c.	(Cont	nued) Give any two examples of the	geological feature labelled	ı U.
					(2 marks)
		(iv)	Describe the behaviour of plat		eet at point S.
					(3 marks)
3.	a.	Stat	e any two examples of climate of seed in Malawi.	change adaptation measur	es which
		_			(2 mark)
	b.	Ex	plain the influence of each of the ertification:	e following factors toward	ds
		(i)	population growth		
					(2 marks)
		(i) overgrazing		
					(2 marks)
		c. I	escribe any one effect of each on wetlands:	of the following human ac	etivities
		(i) cultivation		
					(2 marks
					Continued/.

EXAMINATION NO.:____ M073/I Page 6 of 13 2023 (Continued) Give any two examples of the geological feature labelled U. 2. c. (iii) (2 marks) (iv) Describe the behaviour of plates X and Y when they meet at point S. (3 marks) State any two examples of climate change adaptation measures which 3. a. are used in Malawi. (2 mark) Explain the influence of each of the following factors towards b. desertification: population growth (i) (2 marks) overgrazing (ii) (2 marks)

 Describe any one effect of each of the following human activities on wetlands:

(i) cultivation

(2 marks)

(2 marks)
Continued/...

- 4. (Continued)
 - b. Figure 4 is an illustration of a front. Use it to answer questions that follow.



Figure 4

(i) Identify the type of the front shown.

(1 mark)

(ii) State any two atmospheric conditions which occur in an area due to the presence of the front shown.

(2 marks)

(iii) Describe how the front illustrated develops.

(3 marks)

c. **Figure 5** is an illustration showing the distribution of air pressure belts in the Southern hemisphere.

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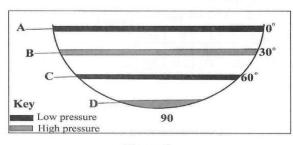


Figure 5

(i) Name the pressure belts labelled A and D.

A:

(1 mark)

D:



__ (1 mark)
Continued/...

4. (Continued)

b. Figure 4 is an illustration of a front. Use it to answer questions that follow.

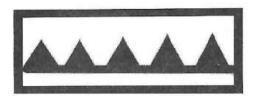


Figure 4

(i) Identify the type of the front shown.

(1 mark)

(ii) State any two atmospheric conditions which occur in an area due to the presence of the front shown.

(2 marks)

(iii) Describe how the front illustrated develops.

(3 marks)

c. **Figure 5** is an illustration showing the distribution of air pressure belts in the Southern hemisphere.

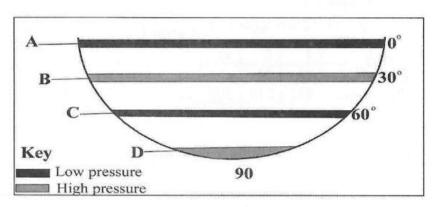


Figure 5

(i) Name the pressure belts labelled A and D.

A:

(1 mark)

D:

(1 mark)



Continued/...

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(Con	tinued)				*							
(ii)	Accou	ant for	the p	oressu	ire pa	tterns	in ea	ch of	the fe	ollow	ing p	ressur	e
	1.	belt I	3										
		-										(2 m	arks)
	2.	belt (С										
			VI HILL	ligetur T	11.5							Q m	
												(2 m	arks)
(iii)								ach o	f the	follow	ving		
	1.	_										(1 r	nark)
	2.	Wes	terlie	S								(1 r	nark)
	3.	Pola	r									(1 r	nark)
						statio	n M	which	is lo	cated	5° S.	Use	it to
	voi que	Direction											
	vor que				Tabl	e 1							
Mon	th	J	F	M	Tabl	M	J	J	A 22	S	0	N 25	D 24
Mon Tem	th				Tabl	1	J 24 205	J 23 200	A 23 195	S 24 210	O 25 220	N 25 215	D 24 210
	(iii)	(iii) According belts: 1. 2. (iii) Using preval 1. 2. 3. Table 1 sho	belts: 1. belt I 2. belt ((iii) Using arrow prevailing 1 1. Trad 2. Wes 3. Pola Table 1 shows cl	(iii) Account for the politics: 1. belt B 2. belt C (iii) Using arrows, she prevailing winds 1. Trades 2. Westerlies 3. Polar Table 1 shows climates	(iii) Account for the pressubelts: 1. belt B 2. belt C (iii) Using arrows, show the prevailing winds on the state of th	(iii) Account for the pressure parbelts: 1. belt B 2. belt C (iii) Using arrows, show the direprevailing winds on the diant. Trades 2. Westerlies 3. Polar Table 1 shows climate data for a	(iii) Account for the pressure patterns belts: 1. belt B 2. belt C (iii) Using arrows, show the direction prevailing winds on the diagram 1. Trades 2. Westerlies 3. Polar Table 1 shows climate data for a station	(iii) Account for the pressure patterns in earliests: 1. belt B 2. belt C (iii) Using arrows, show the direction of exprevailing winds on the diagram: 1. Trades 2. Westerlies 3. Polar Table 1 shows climate data for a station Metable 1.	(iii) Account for the pressure patterns in each of belts: 1. belt B 2. belt C (iii) Using arrows, show the direction of each or prevailing winds on the diagram: 1. Trades 2. Westerlies 3. Polar Table 1 shows climate data for a station M which	(iii) Account for the pressure patterns in each of the febelts: 1. belt B 2. belt C (iii) Using arrows, show the direction of each of the febrevailing winds on the diagram: 1. Trades 2. Westerlies 3. Polar Table 1 shows climate data for a station M which is lo	(iii) Account for the pressure patterns in each of the follow belts: 1. belt B 2. belt C (iii) Using arrows, show the direction of each of the follow prevailing winds on the diagram: 1. Trades 2. Westerlies 3. Polar	 (ii) Account for the pressure patterns in each of the following poletts: belt B 2. belt C (iii) Using arrows, show the direction of each of the following prevailing winds on the diagram: Trades Westerlies Polar Table 1 shows climate data for a station M which is located 5° S. 	(iii) Account for the pressure patterns in each of the following pressure belts: 1. belt B (2 m) 2. belt C (iii) Using arrows, show the direction of each of the following prevailing winds on the diagram: 1. Trades 2. Westerlies 3. Polar (1 m) Table 1 shows climate data for a station M which is located 5° S. Use in the state of the following prevailing winds on the diagram:

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(Cont	tinued)											
(ii)	According belts:	unt for	the p	oressu	ire pa	tterns	in ea	ch of	the f	ollow	ing p	ressui	e
	1.	belt I	В										
						a Z							
					The P		- 1-4					(2 m	arks
	2.	belt (C										
		_			-11							T.H	
									-			(2 m	ark
(iii)		g arro						ach of	f the	follov	ving		
	1.	Trad	les									(1 r	narl
	2.	Wes	terlie	S								(1 r	narl
	3.	Pola	r									(1 r	narl
	le 1 sho ver que					static	on M	which	is lo	cated	5° S.	Use	it to
				1	Tabl			-				N	В
Mont	The state of the s	J 24	F 24	M 25	A 25	M 25	J 24	J 23	A 23	S 24	O 25	N 25	D 24
	in mm	215	210	205	220	210	205	200	195	210	220	215	210
Prec (i)	Iden	tify th	e clin	nate r	epres	ented	by th	e data	a for	statio	n M .	(1	ma
(ii)	the c	climate	e sim	ilar to	that	of sta	tion I	M.					
	-											(2 i Conti	

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c.

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	(iii	i) Exp	plain a locate	any to ed in	wo ch the cl	allen imati	ges w c regi	hich a	affect	deve	lopmoy the	ent in	the a	reas that
		_												
		_												
• a.	Tab	ole 2 sh stions t	ows c	limat llow.	e data	a for s		n P lo	cated	35° N	V. Us	e it to		marks) ver
	Mon		J	F	M	A	M M	J	J	T &	0		120	
	Tem Preci	p °C i mm	06 200	08	14 50	20	24	26	26	A 23 15	S 21 50	18 150	N 12 200	08 220
	(i)	Ident	ify the	e clin	natic i	regio	n repr	esente	ed by	the ta		100	200	220
	(ii)	Calcu	ılate tl	he an	nual t	empe	erature	e rang	e for	Static	on P.		(1	mark)
				ul.						_				
	(iii)	Expla	in the	rainf	all pa	ttern	for St	ation	P.				(2 m	arks)
													(3 m	arks)
												C	ontin	ued/

5. (Continued)

(i)

 With the aid of a well labelled diagram describe the occurrence of a land breeze.

		(7 marks)

c. Figure 6 is a map of Africa showing distribution of some local winds.

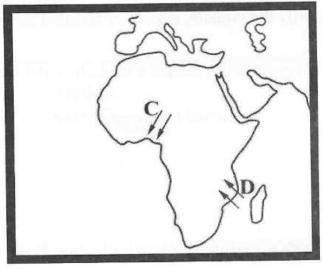


Figure 6

Identify local winds C and D.	
C:	(1 mark)
D:	(1 mark)

5. c.	(Continued)		
	(ii)	Name the two countries which are affected by wind D .	
			(2 marks)
	(iii)	State any two characteristics of wind D .	
			(2 marks)
	(iv)	Describe the weather patterns associated with local wind C.	
			(2 marks)
	(v)	Explain any two effects of local wind C to the affected areas	
			4 monto
			4 marks)