



EXAMINATION NO.: _____
THE MALAWI NATIONAL EXAMINATIONS BOARD
2023 JUNIOR CERTIFICATE EXAMINATION

GEOGRAPHY
 (100 marks)

Subject Number: J073

Tuesday, 30 May

Time Allowed: 2 h 30 min
1:00 -3:30 pm

Instructions

1. This paper contains 14 printed pages. Please check.
2. This paper has **three** sections: **A, B, and C.**
3. Follow instructions for each section carefully.
4. Write your **Examination Number** in the spaces provided on **all** the pages of this paper before you start answering the questions.
5. In the table provided on this page, **tick** against the question number you have answered.
6. Hand in your question paper to the invigilator when time is called to stop writing.

| Question number | Tick if answered | Do not write in these columns | |
|-----------------|------------------|-------------------------------|--|
| 1 - 5 | | | |
| 6 - 10 | | | |
| 11 - 15 | | | |
| 16 - 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |
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| 26 | | | |
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Section A (20 marks)

Answer **all** the questions by **encircling** the letter corresponding to the correct answer.

1. Deflection of winds and ocean current is an effect of
 - A. rotation of the Earth.
 - B. revolution of the Earth.
 - C. Earth's spherical shape.
 - D. tilting of the Earth's axis.
2. A country is located 20° N of the Equator. Its actual distance from the Equator is
 - A. 220 km.
 - B. 2020 km.
 - C. 2220 km.
 - D. 2222 km.
3. Which of the following Malawian land forms was formed from denudation?
 - A. Hora mountain
 - B. Nyika plateau
 - C. Zomba plateau
 - D. Mulanje mountain
4. Which of the following lakes are found within the East African rift valley region?
 - A. Volta and Chad
 - B. Volta and Malawi
 - C. Chad and Tanganyika
 - D. Malawi and Tanganyika
5. Which of the following is the process which results into formation of ox-bow lakes?
 - A. crustal wrapping
 - B. volcanism
 - C. faulting
 - D. meandering
6. Why are the Polar zones always cold?
 1. They are far from the Equator.
 2. They have shorter latitudes.
 3. There is more land than water.
 4. They do not experience overhead sun.
 - A. 1 and 2
 - B. 1 and 4
 - C. 2 and 3
 - D. 3 and 4
7. In which months is the hot dry season experienced in Malawi?
 - A. May to July
 - B. March to June
 - C. November to April
 - D. August to November
8. Why is the Ozone layer also called the 'life layer'?
 - A. It contains a variety of living things.
 - B. It supplies oxygen to living things.
 - C. It protects the Earth from ultra violet rays.
 - D. It has a wide range of gases.
9. In which of the following components of the biosphere are fish found?
 - A. Lithosphere
 - B. Biosphere
 - C. Hydrosphere
 - D. Mesosphere

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10. Which of the following is a challenge associated with generation of hydro-electricity in Malawi?
- A. siltation of Shire river
 - B. frequent blackouts
 - C. interference by tall trees
 - D. accidents due to high voltage
11. Which of the following minerals was being mined at Kayelekera?
- A. coal
 - B. gold
 - C. copper
 - D. uranium
12. Which of the following natural disasters occurs frequently in the Shire valley?
- A. floods
 - B. volcanoes
 - C. land slides
 - D. Earth tremors
13. The act of providing relief items to victims of natural disasters is called disaster
- A. response.
 - B. mitigation.
 - C. prevention.
 - D. preparedness.
14. Which of the following is a cottage industry?
- A. mining
 - B. teaching
 - C. soap making
 - D. basket weaving
15. Which of the following is a physical factor promoting the development of tourism industry in Malawi?
- A. food
 - B. culture
 - C. beautiful scenery
 - D. low cost of living
16. Which of the following is a **negative** impact of tourism?
- A. dilution of local culture
 - B. under development of rural areas
 - C. high levels of unemployment
 - D. promotion of cultural interactions
17. Which of the following aspects of population are used to describe population composition?
- A. age group and tribe
 - B. occupation and sex
 - C. tribe and occupation
 - D. sex and age group
18. The average number of children born for every mother in her productive years is called
- A. birth rate.
 - B. fertility rate.
 - C. reproductive rate.
 - D. life expectancy rate.

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19. What is the population density of a city with a total population of 128,000 and an area of 160km²?
- A. 814 pp/km²
 - B. 812 pp/km²
 - C. 802 pp/km²
 - D. 800 pp/km²
20. Which of the following is an impact of migration in the destination area?
- A. depopulation
 - B. population growth
 - C. availability of resources
 - D. shortage of labour

Section B (50 marks)

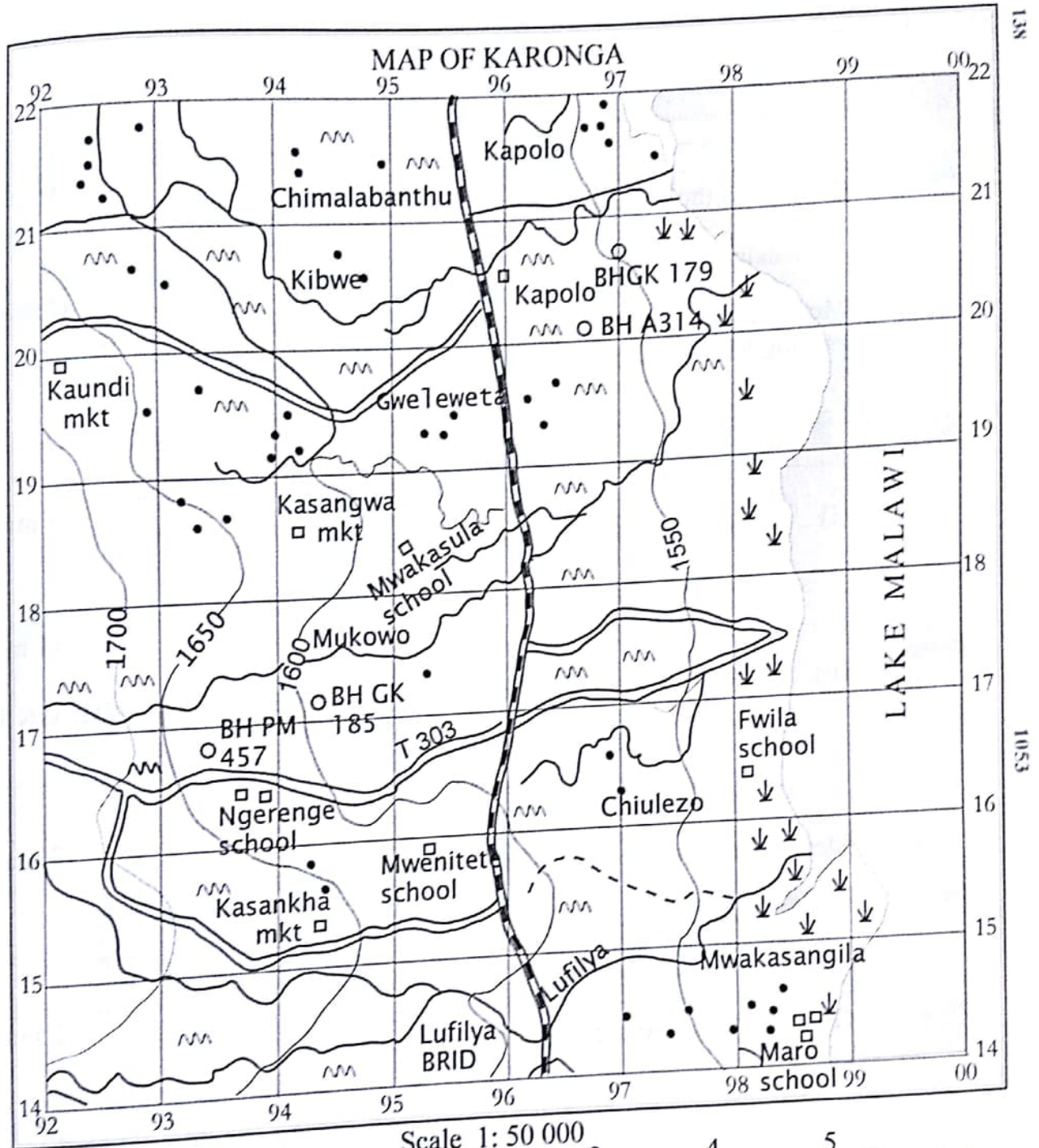
Answer **all** questions in the spaces provided.

21. **Figure 1** on **Page 5** is a map of Karonga. Use to answer questions that follow.

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Legend

| | |
|-------|-----------------------|
| △ | Trigonometrical point |
| ••• | Villages |
| □□□ | Permanent buildings |
| — | M1 Road |
| — | Secondary road |
| - - - | Foot path |

| | |
|--------|---------------------|
| — | River |
| ~1600~ | Contours |
| ~ ~ ~ | General cultivation |
| ↓ ↓ ↓ | Swamp/ Marsh |
| ○ | Borehole well |
| □ | School |



Figure 1

Continued/...

21. (Continued)

- a. (i) Name the coastal feature found in grid **9815**.

(1 mark)
- (ii) Find the **six-figure** grid reference for borehole **BH GK 179**.

(2 marks)
- b. Measure the distance of **T303** road from the junction with **M1** to **easting 93**. Give the answer to the nearest kilometre.

(3 marks)
- c. (i) Mention the direction of flow for Lufilya river.

(1 mark)
- (ii) Find the bearing of borehole **BH GK 185** from borehole **BH GK 179**.

(3 marks)
- d. Mention any **two** settlement patterns shown on the map.

(2 marks)
- e. Give any **two** land uses shown on the map.

(2 marks)
- f. Calculate the area of the Lake Malawi as shown on the map.
Give the answer to the nearest kilometre.
(6 marks)

22. a. Why is Pluto no longer regarded as a planet? Give any **two** reasons.

(2 marks)

- b. Explain the effect of the Earth's spherical shape on the planet.

(2 marks)

- c. Define the term "atmospheric air pressure".

(1 mark)

- d. The **table below** shows temperature readings for town **X**.

| | | | | |
|--------------------------|------|-------|-------|-------|
| Time of the day | 8:00 | 10:00 | 12:00 | 14:00 |
| Temperature in °C | 18 | 22 | 24 | 26 |

- (i) Name the instrument which is used to collect the temperature readings shown in the table.

(1 mark)

- (ii) Calculate the:

1. mean temperature for the day for town **X**. **(2 marks)**

2. temperature range for the day for town **X**. **(2 marks)**

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23. a. Explain any **one** way in which each of the following human activities increases people's vulnerability to natural disasters:

(i) deforestation

(2 marks)

(ii) cultivation along steep slopes

(2 marks)

b. **Figure 2** is an illustration of the Hydrological cycle. Use it to answer questions that follow.

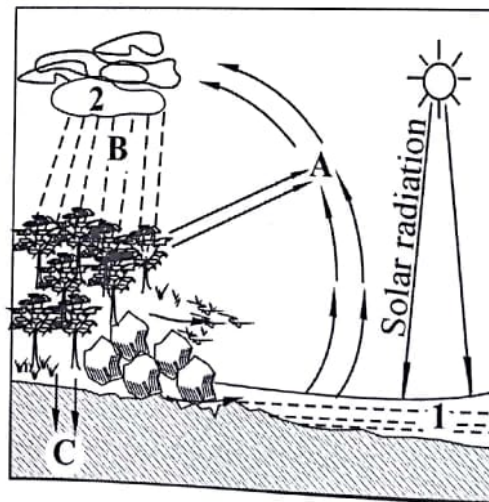


Figure 2

(i) Mention the processes labelled A and C.

A: _____ (1 mark)

C: _____ (1 mark)

23. b. (Continued)

(ii) Name the features labelled 1 and 2.

1: _____ (1 mark)

2: _____ (1 mark)

(iii) Describe the role of process B in the Hydrological cycle.

(2 marks)

24. Figure 3 is a diagram showing a form of transport. Use it to answer questions that follow.

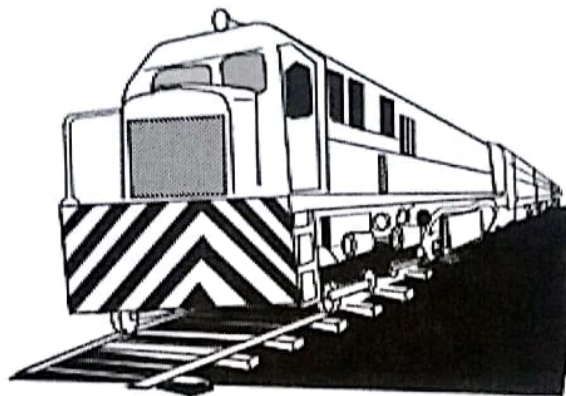


Figure 3

a. (i) Name the type of transport shown in the diagram.

(1 mark)

(ii) Mention any **one** example of goods which are transported using the type of transport shown in the diagram.

(1 mark)

(iii) State any **two** advantages of using the type of transport shown in the diagram.

(2 marks)

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24. a. (Continued)

(iv) Explain any **one** challenge which is faced when using the type of transport shown in the diagram.

(2 marks)

b. Describe any **two** factors which affect the development of transport routes in Malawi.

(4 marks)

Section C (30 marks)

Answer **all** questions in this section in an essay form in the spaces provided.

25. a. Describe any **three** measures of conserving energy resources.

(6 marks)

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25. (Continued)

- b. Explain any **four** ways in which natural resources are mismanaged in Malawi.

Handwritten answer area consisting of 22 horizontal lines for writing.

(9 marks)

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26. a. Describe any three types of natural disasters.

Lined area for writing the answer to the question.

(6 marks)

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26. (Continued)

b. Explain any **four** factors which influence the location of industries.

Lined writing area consisting of 22 horizontal lines.

(9 marks)

END OF QUESTION PAPER

NB: This paper contains 14 printed pages.