



education

Department:
Education
PROVINCE OF KWAZULU-NATAL

UMLAZI DISTRICT

GRADE 10

**GEOGRAPHY
COMMON TEST**

MARCH 2024

MARKS : 60
TIME : 1 HOUR
EXAMINER : MRS N MAKHA
MODERATORS : MRS L.M MNTUNGWA
: MR T SOSIBO

This question paper consists of 8 pages

INSTRUCTIONS

1. The question paper consists of ONE QUESTION and FIVE SUBTOPICS.
2. ALL diagrams are included in the Question Paper.
3. Answer ALL Questions.
4. Write neatly and legibly
5. Number your work correctly.



QUESTION 1

1.1 Choose the correct term from Column B that matches with Column A. Write only the letter (A-I) next to the question number (1.1.1 – 1.1.8) e.g 1.1.8 F

	COLUMN A		COLUMN B
1.1.	Flat layered clouds, uniform grey, produces slight drizzle	A	Cumulonimbus
1.2.	Thin, white, fair weather before cold front.	B	Nimbostratus
1.3.	Layered, thick dark grey clouds, produces heavy rain.	C	Cirrus
1.4.	Ice crystals which form when water vapour becomes ice.	D	Altostratus
1.5.	Very tall, dark grey cloud, strong air currents.	E	Crystallisation
1.6.	Associated with thunderstorms, hail and lightning	F	Stratus
1.7.	When water vapour changes directly into ice.	G	Cumulus
1.8.	Looks like cotton wool, fine weather.	H	Snow
		I	Hail

(8x1)(8)

1.2 Refer to **FIGURE 1.2** a Synoptic Weather Map. Choose the answer and write only the letter (A – D) next to the question numbers e.g 1.2.7 A.



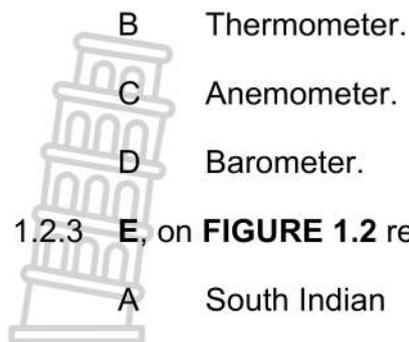
Source: SA weather service

1.2.1 The line that joins places with the same air pressure above the sea level is called an ...

- A isotherm.
- B isobar.
- C isohyet.
- D isopleth.

1.2.2 Wind speed is measured with a/an ...

- A Wind sock.



B Thermometer.

C Anemometer.

D Barometer.

1.2.3 E, on **FIGURE 1.2** represents the ... anticyclone.

A South Indian

B Kalahari

C South Atlantic

D Coastal

1.2.4 The isobaric reading at **C** is ... hPa.

A 1010

B 1012

C 1016

D 1018

1.2.5 The weather element that represents 21 at weather station B indicates the ...

A air pressure

B weather station number

C dewpoint temperature

D air temperature.



1.2.6 The horizontal lines at D on the synoptic weather map represents the ... lines.

A longitude

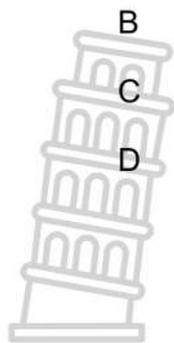
B latitude

C isobar

D contour

1.2.7 A characteristic of the air at pressure cell A is ...

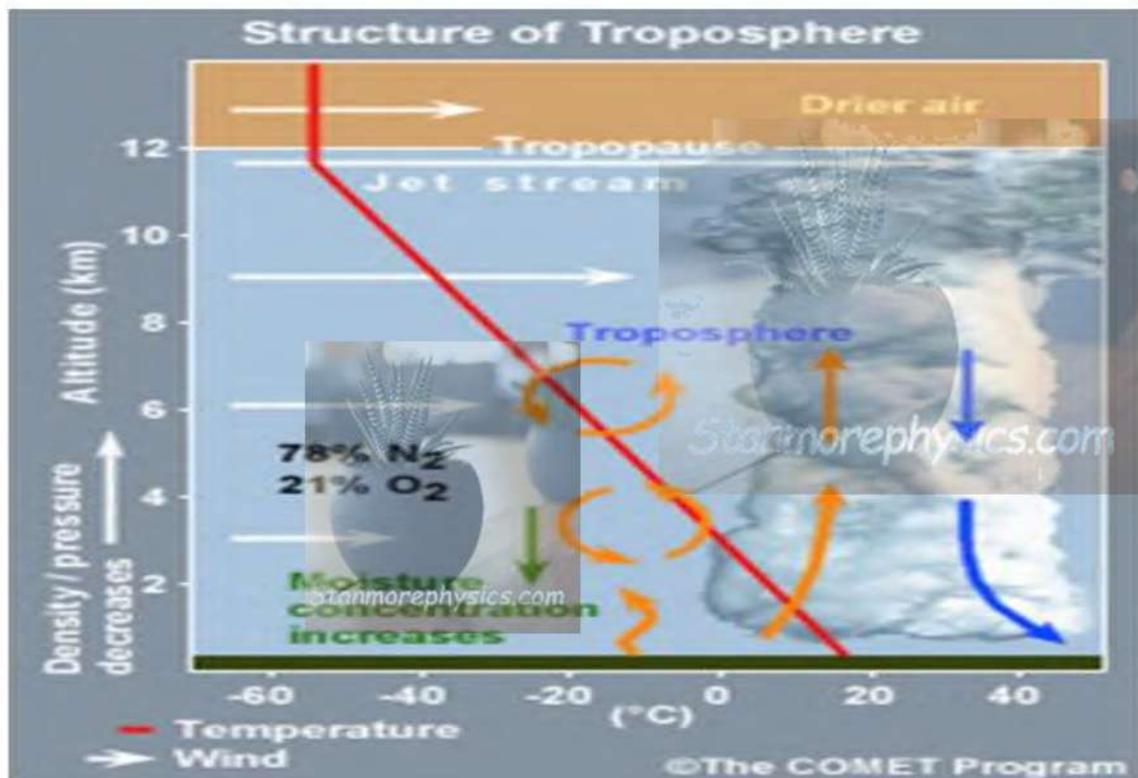
A clockwise descending.



- B anticlockwise descending
- C clockwise ascending.
- D anticlockwise ascending.

(7 x 1) (7)

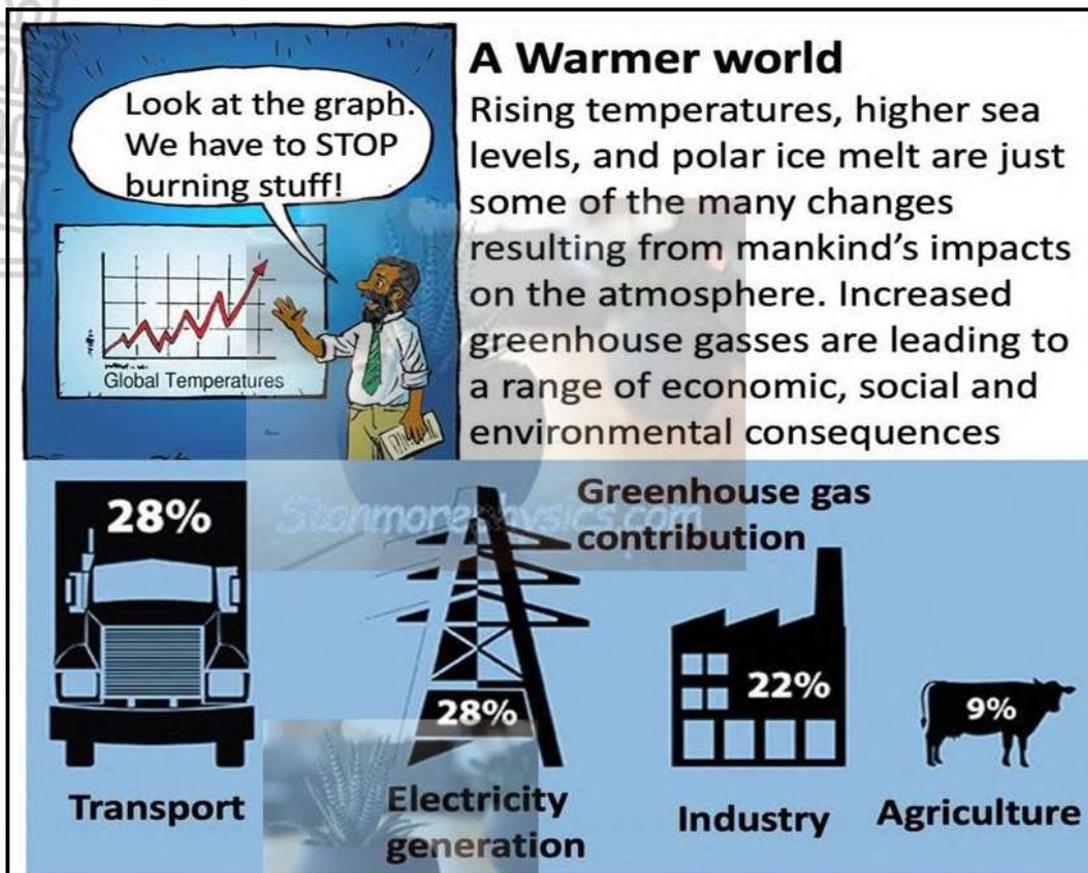
1.3 Refer to FIGURE 1.3 the diagram below and answer the questions that follow.



- 1.3.1 What gas makes up most of the atmosphere (1x1) (1)
- 1.3.2 This graph shows the relationship between _____ and _____ (2x1) (2)
- 1.3.3 What happens to the air pressure with a decrease in gravity? (1x1) (1)
- 1.3.4 Explain how the atmosphere is warmed up more? (2x1) (2)
- 1.3.5 Differentiate between variable and non-variable gases and provide TWO examples for each. (2x2) (4)
- 1.3.6 Discuss the importance of the atmosphere. (2x2) (4)

[15]

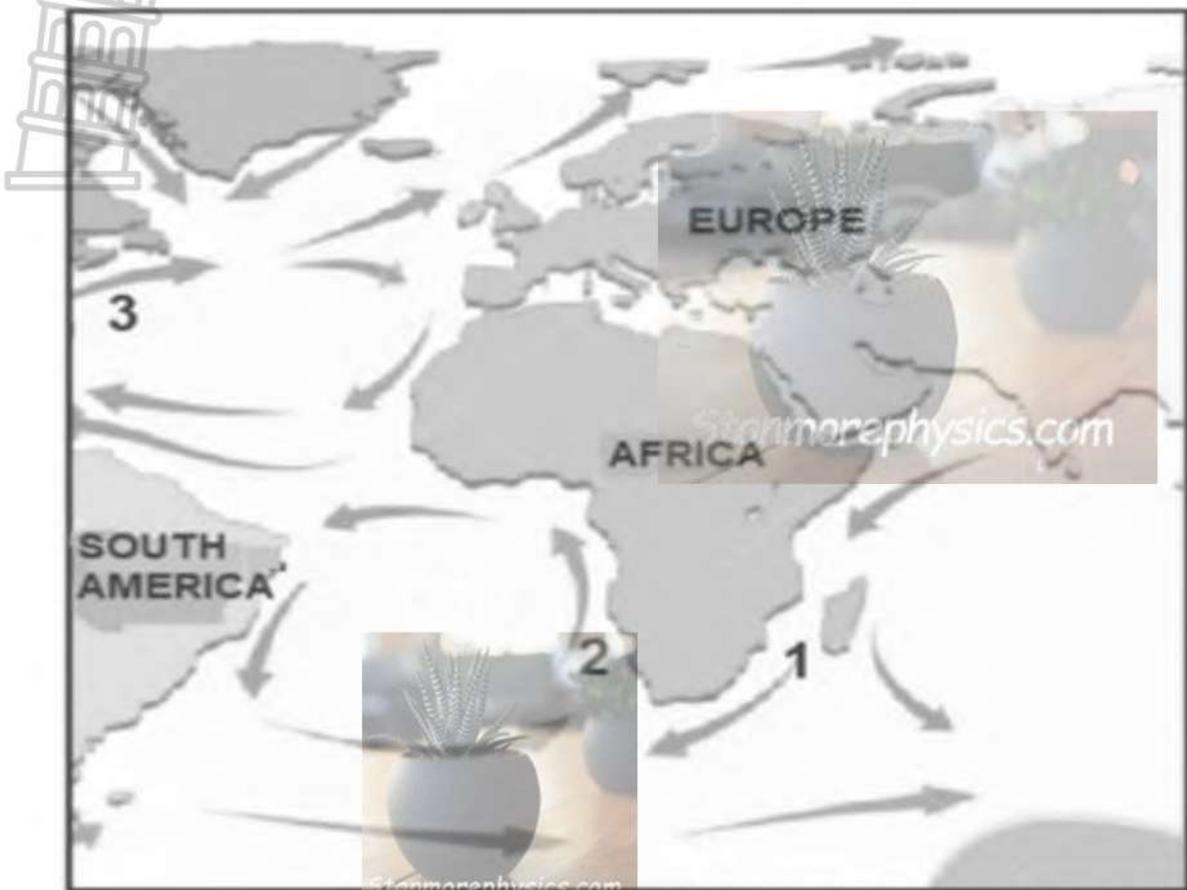
1.4 Study FIGURE 1.4 below showing an impact of Global warming.



- 1.4.1 What is global warming? (1x2) (2)
- 1.4.2 Does the graph show a rise or drop in global temperatures? (1x1) (1)
- 1.4.3 Give TWO changes mentioned in the infographic resulting from man's impact on the atmosphere. (2x2) (4)
- 1.4.4 "Increased greenhouse gasses are leading to a range of economic, social and environmental consequences." (Infographic)
- In a paragraph of approximately EIGHT lines, discuss these consequences. (4x2) (8)

[15]

1.5 Use FIGURE 1.5 and answer the questions that follow on factors affecting temperature.



Source: <http://www.dreamstime.com/ocean-currents-world-map>

- 1.5.1 Name the ocean on the west coast of South Africa (1x1) (1)
- 1.5.2 List ANY TWO factors that affect the climate of the world. (2x1) (2)
- 1.5.3 Identify the ocean currents labelled 1 and 2 on the map above. (2x1) (2)
- 1.5.4 Describe how the ocean current labelled 1 on the map will influence the climate of South Africa with regards to temperature and rainfall. (2x2) (4)
- 1.5.5 Globally the earth's continents tend to experience warmer temperatures on their east coasts. Provide THREE reasons to support this statement. (3x2) (6)

[15]

TOTAL: 60