

SECTION A: TERM 1 CONTENT (35 MARKS)

QUESTION 1

Various options are provided as answers. Choose the correct answer and write the letter (A-D) next to the question number e.g. 1.1 E

1.1 The point where latitude and longitude lines meet.

- A. Degree
- B. Point
- C. Coordinates
- D. Squares

1.2 The relationship between the distance on the map and the same distance on the ground

- A. Scale
- B. Map
- C. Line
- D. Word

1.3 Solstices are associated with

- A. Summer and spring
- B. Winter and autumn
- C. Spring and autumn
- D. Summer and winter

1.4 Equinox means

- A. Equal day and night
- B. When day has the longest hours
- C. Different in day and night
- D. Rotation of earth

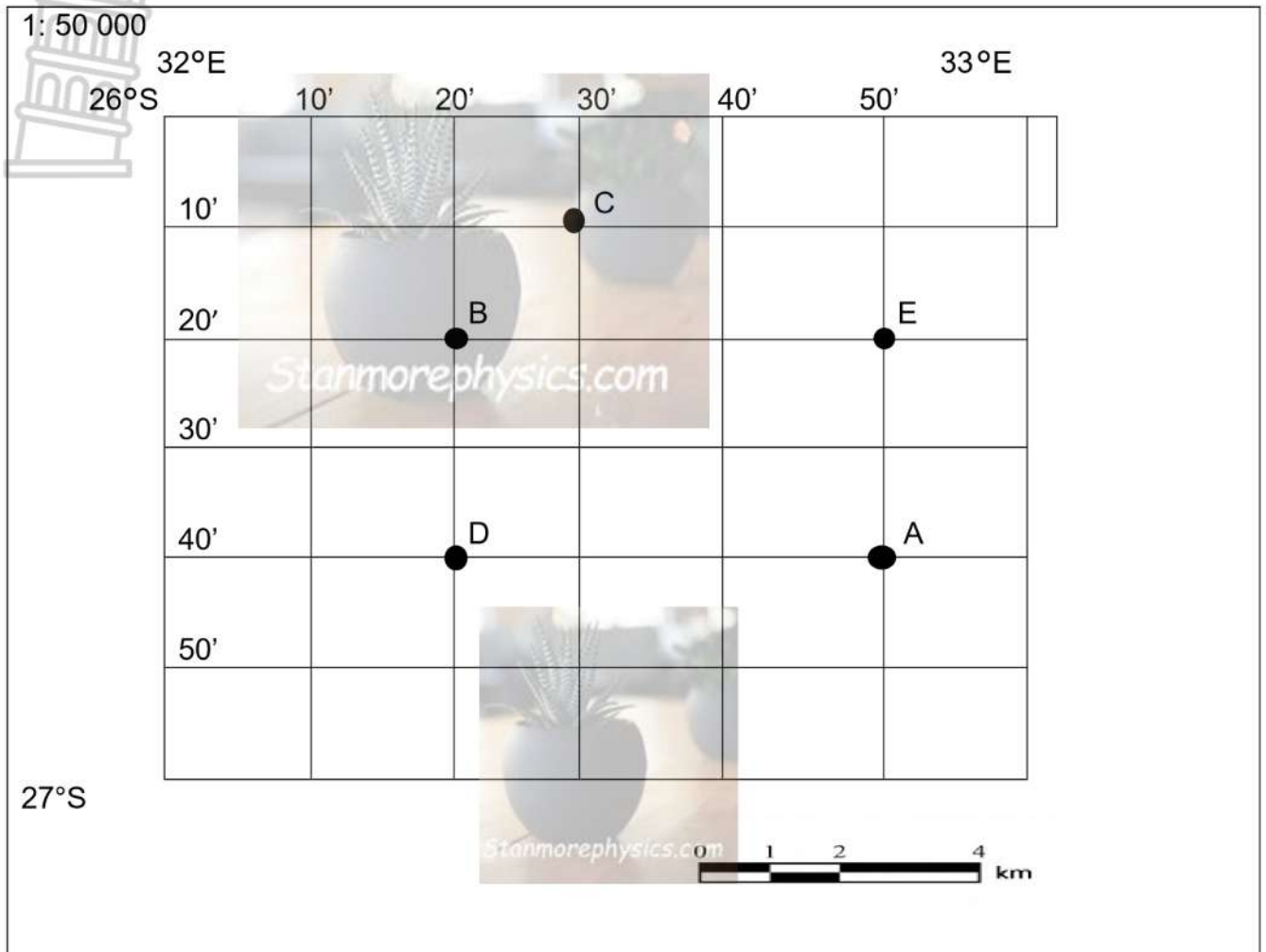
1.5 1: 50 000 represent

- A. 1cm on the map represent 50 cm on the ground
- B. 1cm on the map represent 50 000 km on the ground
- C. 1cm on the map represent 50 000 cm on the ground
- D. 1cm on the map represent 5 km on the ground

5x1 (5)

QUESTION 2

Study figure 2 and answer the questions that follow



2.1 Define the term coordinates. 1x2 (2)

2.2 Which TWO hemispheres are illustrated in figure 2 above 2x1 (2)

2.3 Identity TWO types of scales shown on the sketch map. 2x1 (2)

2.4 Write the scale 1cm: 50 000 centimetres as a word scale 1x2(2)

2.5 How many minutes in one degree? 1x1 (1)

2.6 Determine the grid references of the following letters.

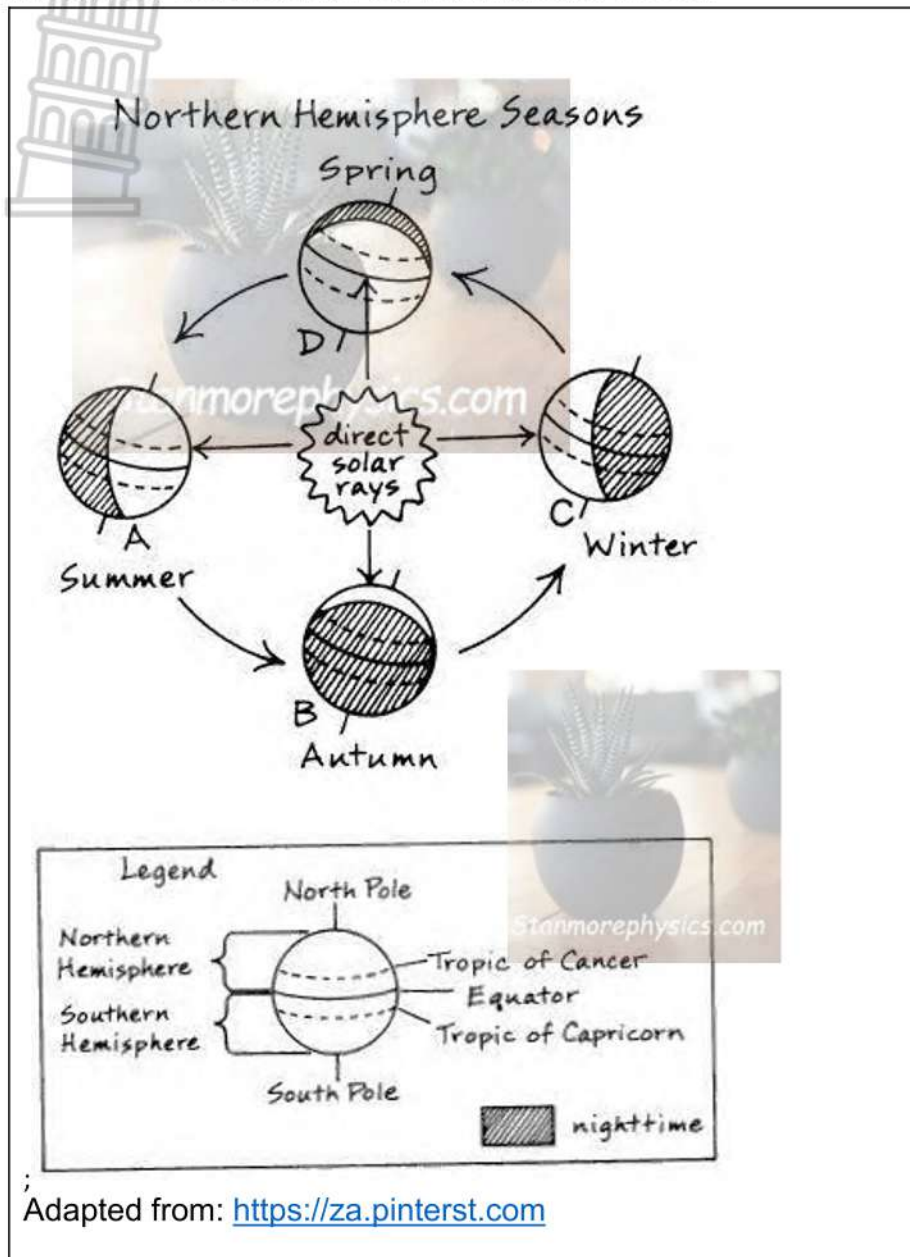
(a) **B**

(b) **C**

2x2 (4) **[13]**

QUESTION 3

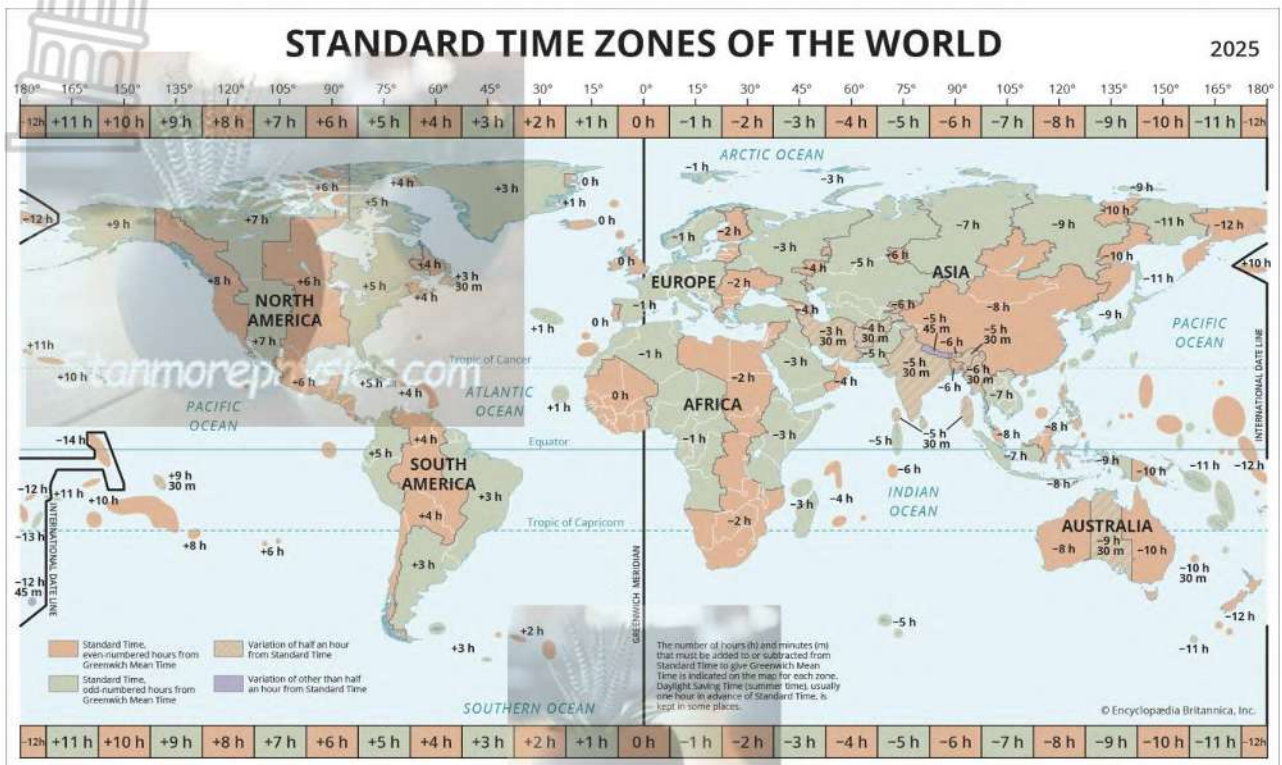
FIGURE 3: Revolution of the Earth around the sun



- 3.1 Identify the hemisphere illustrated by FIGURE 3. 1x2 (2)
- 3.2 Identify the letter which indicates Equinox. 1x2 (2)
- 3.3 Mention the dates of the occurrence of Equinox. 2x2 (4)
- 3.4 Identify the letters which indicates Solstices. 1x2 (2)

[10]

QUESTION 4: World time, time zones and the international date line



- 4.1 Is time earlier or later to the east of the Greenwich Meridian? (1)
- 4.2 Calculate the time difference between SA (+2) and Brazil (-3) (2)
- 4.3 When it is 20:00 in Japan (+9) what time is in South Africa (+2) (4)

TOTAL SECTION A: 35

SECTION B: TERM 2 CONTENT (40 MARKS)

QUESTION 5

5.1 Match the statement in COLUMN A with the concept in COLUMN B

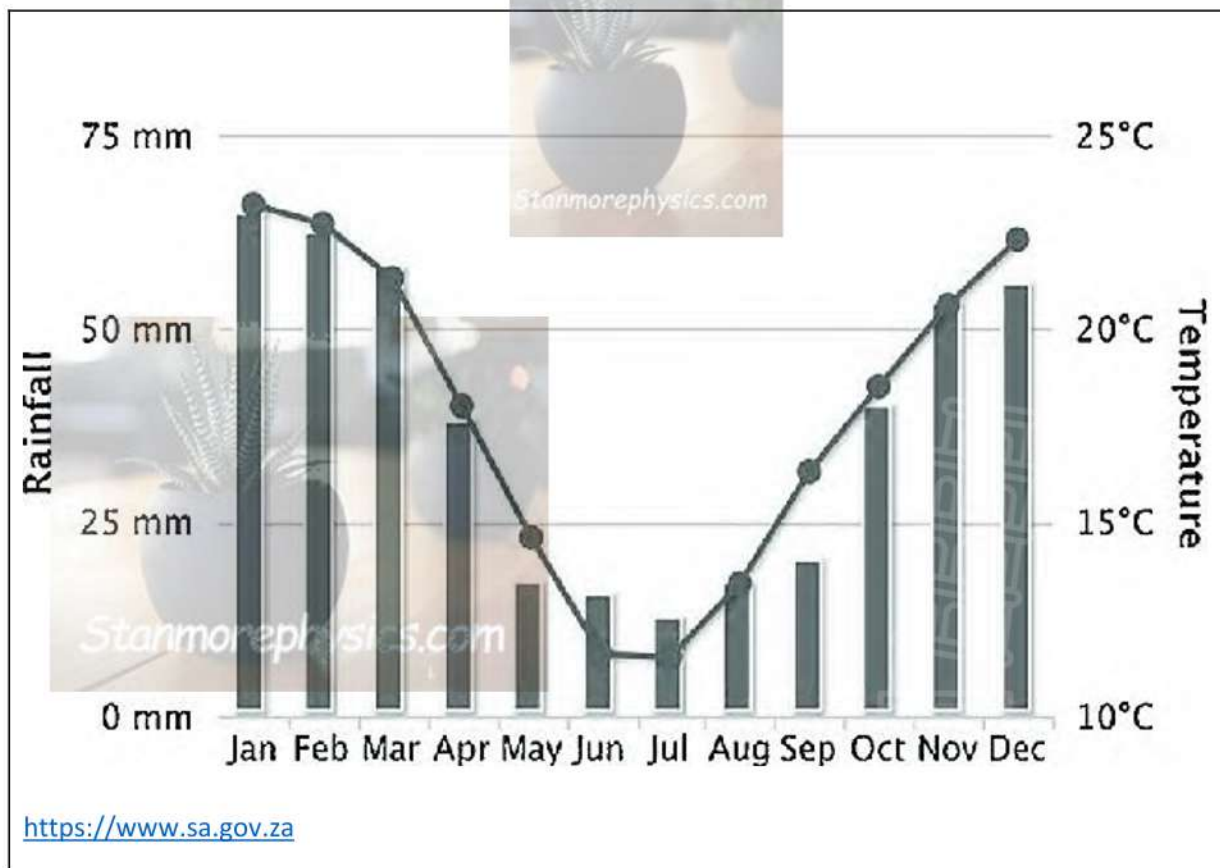
Write the letter of the correct answer next to number of the correct statement. Eg 3.1 F

COLUMN A	COLUMN B
5.1.1 Temperature range	A. The day-to-day conditions in the atmosphere
5.1.2 Frost	B. An instrument that shows how hot or cold it is
5.1.3 Thermometer	C. The difference between high and low temperatures.
5.1.4 weather	D. The height above sea level.
5.1.5 Altitude	E. Ice crystals that form outdoors surface where temperatures drop below freezing point (0°C)

(5x1) (5)

QUESTION 6

Study the table below and answer the questions that follow.



The 2016 Average annual rainfall and temperature in South Africa.

6.1 Differentiate between **WEATHER** and **CLIMATE**.

2x2 (4)

6.2 Which months has recorded the lowest average temperature? 1x2 (2)

6.3 Which months has recorded the highest rainfall? 1x2 (2)

6.4 Identify the units for measuring temperature. 1x1 (1)

6.5 Refer to the table below showing the weather of Durban to answer the following question.

Months	February	July	December
Average maximum temperatures in °C	30	22	32
Average minimum temperatures in °C	22	10	20

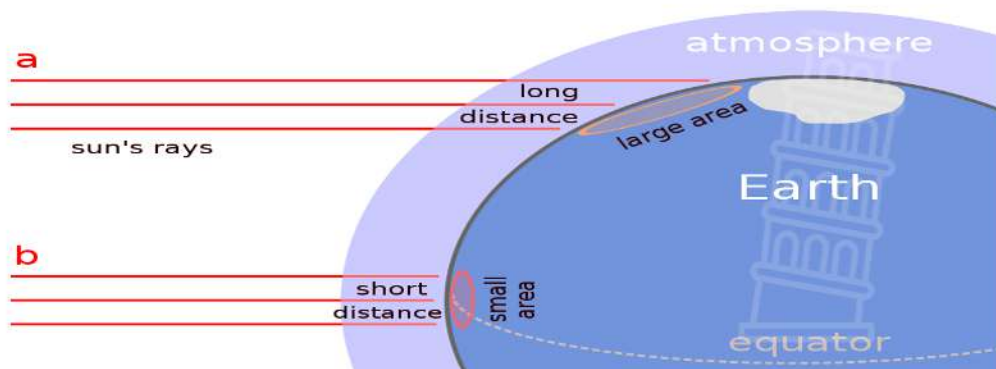
6.5.1 Calculate the temperature range for Durban in February.

FORMULAR: HIGHER TEMPERATURES – LOWER TEMPERATURES (3x1) (3)

[12]

QUESTION 7

Study the diagram below showing the influence from the equator on temperature and rainfall and answer the questions that follow:

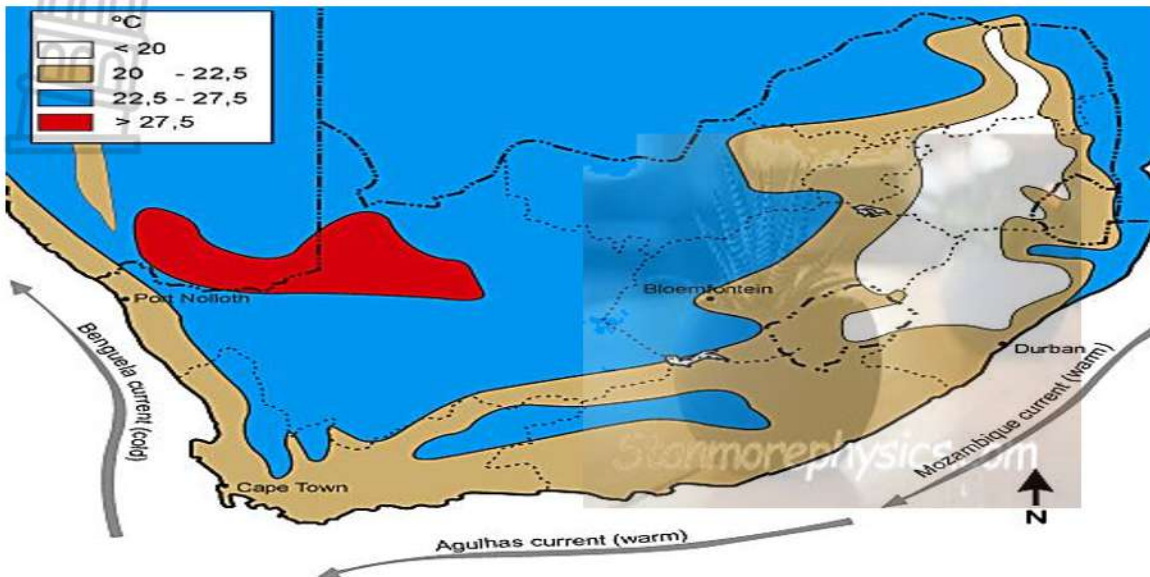


7.1.1 Give **TWO** reasons why hot temperatures are found near the equator. (2x2) (4)

7.1.2 Explain why poles are cooler than the areas like equator. (1x2) (2)

QUESTION 8

Study the physical map of South Africa below and answer the questions that follow.



- 8.1 Identify the TWO ocean currents which flow to the East and South coast of South Africa. 2x1 (2)
- 8.2 Explain how cold ocean current (Benguella current) in the west influences weather and temperature of the west coast of South Africa. (3x1) (3)
- 8.3 Mention FOUR factors that affect temperature and rainfall (4x1) (4)
- 8.4 Write a paragraph of approximately 8 lines explaining FOUR elements of weather. 4x2 (8)

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TOTAL SECTION B: 40

GRAND TOTAL: 75

This memorandum consist of 4 pages including the cover page **SECTION A: TERM 1 CONTENT (35 MARKS)**

QUESTION 1

- 1.1 C✓✓
- 1.2 A✓✓
- 1.3 D✓✓
- 1.4 A✓✓
- 1.5 C✓✓ 5 x1 (15)

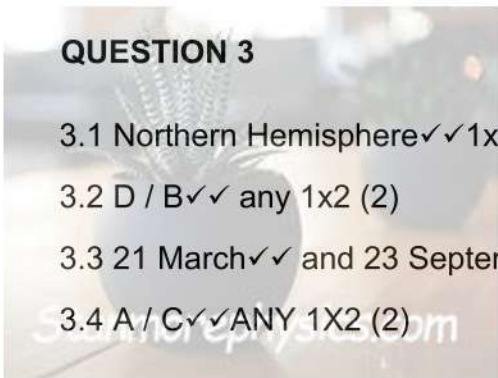
QUESTION 2

- 2.1 The point where latitude and longitude lines cross✓✓.1x2 (2)
- 2.2 Southern Hemisphere and Eastern hemisphere✓✓ 1x2 (2)
- 2.3 Ratio and Line scale✓✓ 1x2 (2)
- 2.4 one centimetre on the map represents fifty thousand on the ground
- 2.5 60'✓ 1x1 (1)
- 2.6 C 26°10' S✓: 32°30' E✓ 2x1 (2)
B. 26°10' S✓: 32°30'E✓ 2x1 (2)



QUESTION 3

- 3.1 Northern Hemisphere✓✓1x2 (2)
- 3.2 D / B✓✓ any 1x2 (2)
- 3.3 21 March✓✓ and 23 September✓✓ 2X2 (4)
- 3.4 A / C✓✓ANY 1X2 (2)



[10]

QUESTION 4

- 4.1 EARLIER
- 4.2. 3+2=5 hrs td
- 4.3 9-2=7hrs TD
20:00-7HRS=13:00

SECTION B: TERM 2 CONTENT (40 MARKS) QUESTION 5

5.1.1 C✓✓

5.1.2 E✓✓

5.1.3 B✓✓

5.1.4 A✓✓

5.1.5 D✓✓

5x1 (5)

QUESTION 6

6.1 WEATHER- is the condition of the atmosphere over a short period of time✓✓

Climate- is the condition of the atmosphere over a long period of time.✓✓✓✓

6.2 July✓✓

6.3 January✓✓

6.4 °C/ Degree Celsius.✓

6.5.1 $30-22=8^{\circ}\text{C}$ ✓✓

QUESTION 7

7.1.1 Receives direct sunrays, sun heat at a smaller surface, sun travels over short distance✓✓

7.1.2 poles receives indirect sunrays, sun travels longer distance, sun heats at a larger surface✓✓

QUESTION 8

8.1 Mozambique current and Agulhas current

8.2 Decreases the temperatures, little rainfall, dry conditions, droughts.

8.3. Distance from the equator (latitudes) ✓, Height above sea level (altitude) ✓, Mountains (relief) ✓Distance from the sea✓, Ocean currents✓.

8.4 Temperature- how hot or cold it is✓✓,

Humidity-amount of water vapour in the atmosphere or air✓✓,

Wind speed- how fast the wind is blowing✓✓

Wind direction- direction in which the wind is blowing.✓✓,

Precipitation- moisture from the sky such as rain✓✓.

RUBRIC ASSESSING PARAGRAPH QUESTION 8.4

Use the following rubric to allocate marks

Level 1	<ul style="list-style-type: none"><input type="checkbox"/> Uses evidence in an elementary manner e.g. show little or no understanding.<input type="checkbox"/> Use evidence partially to report on topic or cannot report on topic.	Marks: 0-2
Level 2	<ul style="list-style-type: none"><input type="checkbox"/> Evidence is mostly relevant and relate to a great extent to a topic<input type="checkbox"/> Uses evidence in a very basic manner	Marks:3-5
Level 3	<ul style="list-style-type: none"><input type="checkbox"/> Uses relevant evidence e.g. demonstrate a thorough understanding.<input type="checkbox"/> Uses evidence very effectively in an organised paragraph that shows an understanding of the topic	Marks:5-8

