education

MPUMALANGA PROVINCE

REPUBLIC OF SOUTH AFRICA

NKANGALA DISTRICT

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NATIONAL SENIOR CERTIFICATE

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GRADE 10

GEOGRAPHY TERM 1 CONTROLLED TEST

MARKING GUIDELINES

13 MARCH 2024

MARKS: 60

DURATION: 1.5 HRS

N.B This Marking guidelines consists of FOUR pages.

QUESTION 1

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1.1

1.1.1	Y (1)
1.1.2	Z (1)
1.1.3	Y (1)
1.1.4	Z (1)
1.1.5	Z (1)
1.1.6	Y (1)
1.1.7	Y (1)
1.1.8	Y (1)

(8X1) (8)



1.2

1.2.1	B (1)
1.2.2	B (1)
1.2.3	C (1)
1.2.4	D (1)
1.2.5	B (1)
1.2.6	C (1)
1.2.7	D (1)

(7X1) (7)

1.3

1.3.1 Isobars are lines on the synoptic weather map joining places of equal atmospheric air pressure (CONCEPT) (1x2) (2)

1.3.2 4 hpa\ mb (1x1) (1)

1.3.3 Highest pressure is recorded in the center/ Air pressure decreases from the Centre (1x1) (1)

1.3.4 Winter (1x1) (1)

1.3.5 Date of the map is 01/06/2012
Presence of the three high pressure cells
Cold front in the western part of the country
ANY TWO (2x1) (2)

1.3.6 (a) Cyclonic rainfall/ Frontal rainfall (2x1) (2)

(b) (i) Air temperature : 18°C
(ii) Air pressure : 13°C
(iii) Wind speed : 10knots

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(iv) Wind direction : North West

(v) Cloud cover : ¾ (5x1) (5)

1.3.7 At C (1x1) (1)

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1.4

1.4.1. Atmosphere is a thin layer of gases surrounding the earth. (1x2) (2)

1.4.2. Nitrogen. (1x1) (1)

1.4.3. Troposphere
Mesosphere (2x1) (2)

1.4.4. By flying in the stratosphere, aircrafts can often avoid bad weather conditions such as thunderstorms, heavy winds and icing which are common in the troposphere stratosphere is very dry, there are fewer or no clouds. (1x2) (2)

1.4.5. The atmosphere contains important gases for life e.g. oxygen for human life.
It contains water vapor which provides earth with all forms of moisture.
It protects life on earth from harmful rays from the sun.
It acts as a blanket around the earth protecting us from extremes of hot and cold conditions.
It allows for a change in weather to take place as air is able to move and distribute heat and water vapor. (4x2) (8)

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1.5

1.5.1. Carbon dioxide, Methane , CFC, Nitrous Oxide. (1x1) (1)

ANY ONE

1.5.2.

Can't grow crops/vegetables
People die in storms
People left homeless (1x1) (1)
ANY ONE

1.5.3.

Education campaigns
Encourage people to adopt a green lifestyle
Municipalities strict bylaws that prohibit people from certain activities and promote good practices. (2x1) (2)
ANY TWO

1.5.4.

(i) A – Orographic/Relief rainfall

B – Cyclonic/Frontal rainfall (2 X 1) (2)

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(ii) Soft, continuous rain over a wide area (1 x 1) (1)

(iii) Orographic/relief rainfall occurs when warm, moist air blows off the ocean onto the mountain (2)
This warm, moist air is then forced to rise by the mountain (2)
As the warm air rises, it cools, and condensate (2)
When the cloud is fully formed with condensation level reached, the rain then falls on the side of the mountain that faces the ocean (2)
The leeward side of the mountain is then left with dried air that blows down the mountain range (2)
The warm dry air that descended the leeward side continues to pull moisture out the land (2)
ANY TWO (4 x 2) (8)
/15/



TOTAL MARKS: 60