education

Department of
Education
FREE STATE PROVINCE

GEOGRPHY

TEST ONE



GRADE:12

MARCH 2025

MARKING GUIDELINE

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QUESTION 1

1.1

1.1.1 katabatic wind.

1.1.2 heavy and dense

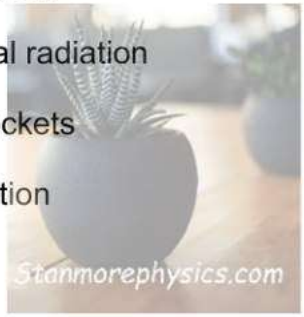
1.1.3 thermal belt

1.1.4 terrestrial radiation

1.1.5 Frost pockets

1.1.6 evaporation

1.1.7 night.



(7X1) (7)

1.2 1.2.1 **Y** Source

1.2.2 **Z** Confluence

1.2.3 **Y** Interfluve

1.2.4 **Y** Watershed

1.2.5 **Z** Dendritic

1.2.6 **Z** Tributary

1.2.7 **Z** Low

1.2.8 **Y** Mouth

(8x1) (8)

1.3

1.3.1 Mozambique channel (1)
The date/ month January (1)
Cyclone (1)
(ANYONE) (1x1) (1)

1.3.2 Three (1) (1x1) (1)

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1.3.3 Cumulonimbus (1) (1x1) (1)

1.3.4 **SOCIAL IMPACT**
Six deaths/ loss of life (2)
Injuries (2)
250 teachers and 18,241 students affected by damaged schools (2)
Hampered access to information (2)
15,000 houses were destroyed (2)

ENVIRONMENTAL IMPACT
Road blockage (2)
Downes power lines (2)
Damaged communication network (2)
[ANY TWO] (2x2) (4)

1.3.5 Early warning systems put in place (2)
Sandbags to reduce flooding (2)
Reinforcing existing infrastructure (2)
Awareness and education programmes (2)
Evacuation protocols and drills (2)
Stocking up of emergency supplies and necessities (2)
Identify high lying areas to evacuate people (2)
Build above flood lines/ coastal zoning (2)
Tracking the movement of the tropical cyclone
Good forecasting/ Use of media to update regularly (2)
Improve accessibility to evacuate people (2)
Move people to higher ground (2)
Development of good rescue and emergency services (2)
Storage/ provision of clean water and food supplies (2)
Rescue personnel, police, medical personnel on standby (2)
Maintain coastal vegetation to act as a buffer against storm surges (2)
(4x2) (8)

[15]

1.4

1.4.1 Drainage density is the total length of streams in a drainage basin divided by the total area of the drainage basin/The relationship between the length of streams in a drainage basin and the size of the drainage basin (2) [CONCEPT] (1x2) (2)

1.4.2 B (1) (1x1) (1)

1.4.3 A has more tributaries/ streams (2)
The total length of the streams at A is longer than that for B (2)
There are many first order streams in A (2)
(ANY TWO) (2x2) (4)

1.4.4	Rock that is uniformly resistant to erosion. (1)	(1x1)	(1)
1.4.5	It looks like branches of a tree. (1)	(1x1)	(1)
1.4.6	Gradient – Steep gradient promote high drainage density as more water runs over the surface. (2) Rock type and permeability- Impermeable rock promote high drainage density as water cannot easily infiltrate the ground. (2) Soil moisture- Saturated soil promote high drainage density as more water cannot easily infiltrate the ground. (2) Vegetation cover- Less vegetation cover promotes high drainage density as more water runs over the surface. (2)	(3x2)	(6)
			[15]

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1.5

1.5.1	South Atlantic High-Pressure cell/South Atlantic Anticyclone (1) South Indian High-Pressure cell/South Indian Anticyclone (1)	(2 x 1)	(2)
1.5.2	Winter (1)	(1 x 1)	(1)
1.5.3	The South Atlantic H.P.C and THE South Indian H.P.C are both further North. (2) Presence of the Mid-Latitude cyclone. (2) The cold front is closer to Southwestern Cape. (2)	(2 x 2)	(4)
1.5.4	Clockwise circulation (2)	(1 x 2)	(2)
1.5.5	Berg winds (1)	(1 x 1)	(1)
1.5.6	Mid-Latitude cyclone (1)	(1 x 1)	(1)
1.5.7	The cold front overtakes the warm front (2) Air Masses catch up. (2) The air is displaced. (2)	(2 x 2)	(4)
			[15]

TOTAL: 60