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**SA EXAM
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Proudly South African



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education

Department of
Education
FREE STATE PROVINCE

GRADE 12

GEOGRAPHY P1

2026

JUNE EXAMINATION

MARKS: 150

TIME: 3 HOURS

This question paper consists of 13 pages.



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1. This question paper consists of TWO sections.

SECTION A

QUESTION 1: CLIMATE AND WEATHER (60)

QUESTION 2: GEOMORPHOLOGY (60)

SECTION B

QUESTION 3: GEOGRAPHICAL SKILLS AND TECHNIQUES (30)

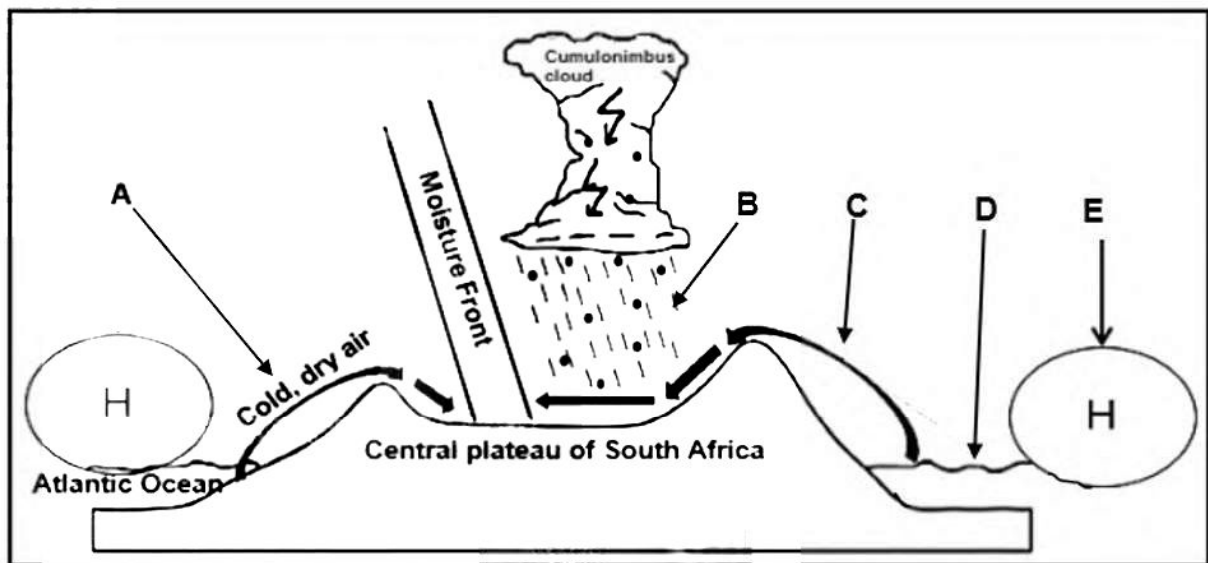
2. Answer ALL THREE questions.
3. ALL diagrams are included in the QUESTION PAPER.
4. Leave a line between the subsections of questions answered.
5. Start EACH question at the top of a NEW page.
6. Number the answers correctly according to the numbering system used in this question paper.
7. Do NOT write in the margins of the ANSWER BOOK.
8. Draw fully labelled diagrams when instructed to do so.
9. Answer in FULL SENTENCES, except when you have to state, name, identify or list.
10. Units of measurement MUST be indicated in your final answer, e.g. 1 020 hPa, 14 °C and 45 m.
11. You may use a non-programmable calculator.
12. You may use a magnifying glass.
13. Write neatly and legibly.



SECTION A: CLIMATE AND WEATHER AND GEOMORPHOLOGY

QUESTION 1: CLIMATE AND WEATHER

1.1 Refer to the sketch below, which illustrates the development of line thunderstorms.



[Source: Examiner's sketch]

- 1.1.1 Which season is represented by the sketch?
- 1.1.2 Identify high-pressure cell E.
- 1.1.3 Describe the role of the South Atlantic Anticyclone in line thunderstorm formation.
- 1.1.4 Name the wind at A?
- 1.1.5 How is the moisture content of the wind at C?
- 1.1.6 Moisture for line thunderstorms mainly comes from the ... ocean at D.
- 1.1.7 Precipitation experienced at point B

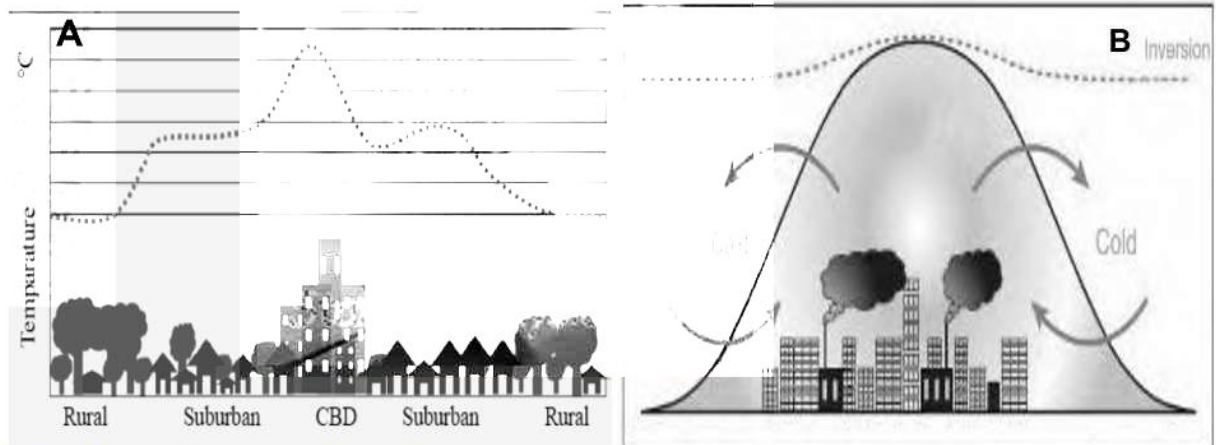
(7x1) (7)



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1.2 Refer to urban climate below



<https://www.ibgeographypods.org/>

Write only the letter (**A** or **B**) next to the question numbers (1.2.1 to 1.2.8).

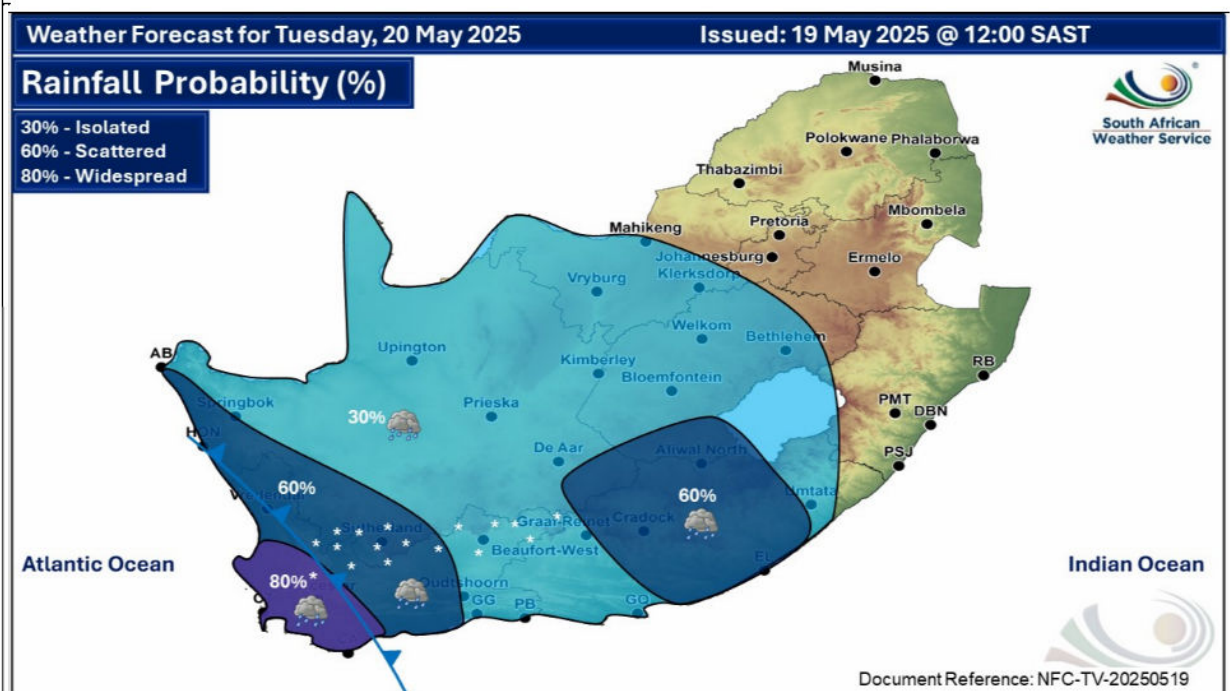
- 1.2.1 A layer of polluted air trapped above a city.
- 1.2.2 Buildings and tarred roads **release** heat slowly at night so they increase urban temperatures.
- 1.2.3 Urban area that is warmer **than** surrounding rural areas.
- 1.2.4 Pollution becomes trapped over the city because of temperature inversion.
- 1.2.5 Effects of **A/B** is heat stress.
- 1.2.6 One of the negative effects of **A/B** is old paint peeling off buildings.
- 1.2.7 Suggested ways to reduce **A/B** is the use of public transport for emission controls.
- 1.2.8 Strategies to reduce the **A/B** effect is to invest in energy saving strategies.



1.3 Refer to the midlatitude cyclone below

“A well-developed cold front is expected to affect the Western Cape and the Namakwa District (Northern Cape) from Tuesday to Wednesday (20–21 May 2025). The public and small stock farmers are advised that very cold conditions, heavy rainfall, snowfalls, strong to gale force winds, and very rough seas can be expected.

The above-mentioned weather conditions will spread to the east, affecting the Namakwa District of the Northern Cape and the Eastern Cape. Difficult driving conditions and flooded roads can contribute to longer travel times. Very cold, wet and windy conditions can lead to loss of livestock and agricultural production”



<https://snowreport.co.za/south-africa-cold-fronts-19-23-may-2025/>

- 1.3.1 The mid-latitude cyclone mentioned in the extract is in the (initial/mature) stage. (1x1) (1)
- 1.3.2 Explain why the severe weather conditions mentioned in the extract spread from Western Cape to Eastern Cape? (1x2) (2)
- 1.3.3 With reference to the map, account for the heavy rainfall of 80% at the cold front. (2x2) (4)
- 1.3.4 In a paragraph of approximately EIGHT lines, discuss the negative impact of strong winds and heavy rainfall on the physical (natural) environment of the Western Cape. (4x2) (8)

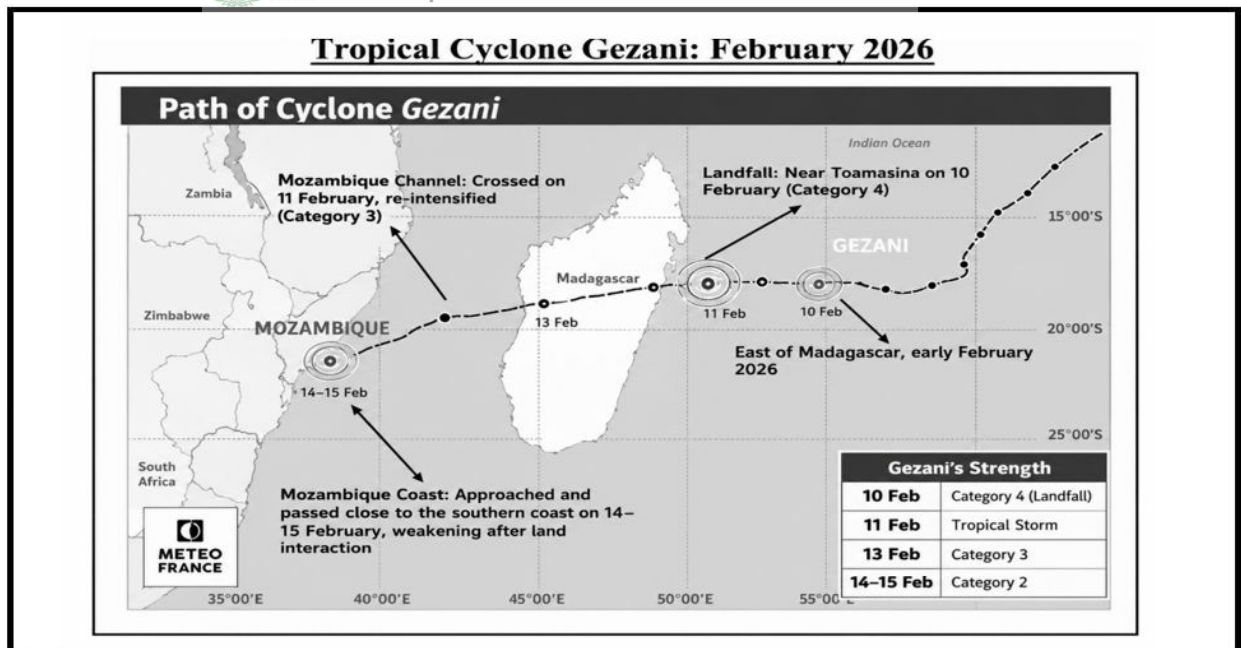
[15]



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1.4 Refer to the infographic below based on Tropical Cyclone Gezani



In February 2026, Tropical Cyclone Gezani struck the Southwest Indian Ocean as a Category 4-equivalent storm, causing widespread devastation across Madagascar and Mozambique. The cyclone made landfall near Toamasina on Feb 10 2026

The destruction in Toamasina was catastrophic, with roughly 75% of buildings destroyed and the city's power grid rendered nearly non-functional.

As the system moved into the Mozambique Channel, it re-intensified and passed the southern coast of Mozambique on February 14–15. In Inhambane province, the storm killed four people and destroyed hundreds of homes. The cumulative impact of Gezani and the earlier Cyclone Fytia has left over 700,000 people displaced across the region and damaged more than 180 health facilities in Mozambique.

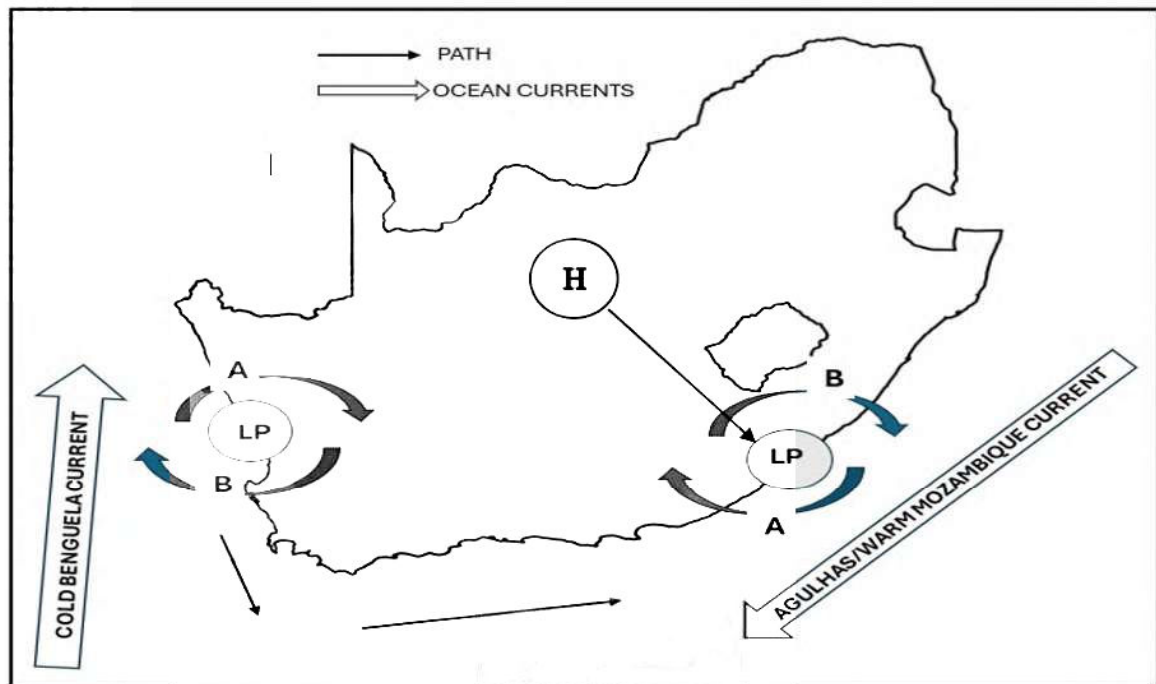
The humanitarian crisis is currently defined by a severe cholera outbreak, with cases in Southern Africa increasing sevenfold since the start of the year.

(Source: <https://wmo.int/media/news>)

- 1.4.1 With evidence from the infographic above, identify the specific body of water where Cyclone Gezani initially formed. (1x1) (1)
- 1.4.2 How did the Mozambique channel influence the increase in intensity (strength) of Tropical Cyclone Gezani (11 February)? (1x2) (2)
- 1.4.3 State a reason why latent heat increases the energy in the atmosphere. (1x2) (2)
- 1.4.4 Discuss the socio economic factors that may have led to the devastating and severe impacts of Tropical Cyclone Gezani in Madagascar. (3x2) (6)
- 1.4.5 Explain the importance of monitoring tropical cyclones like Gezani for Madagascar and Mozambique. (2x2) (4)



1.5 Refer to the sketch of the Coastal Low below



[Source: Examiner's sketch]

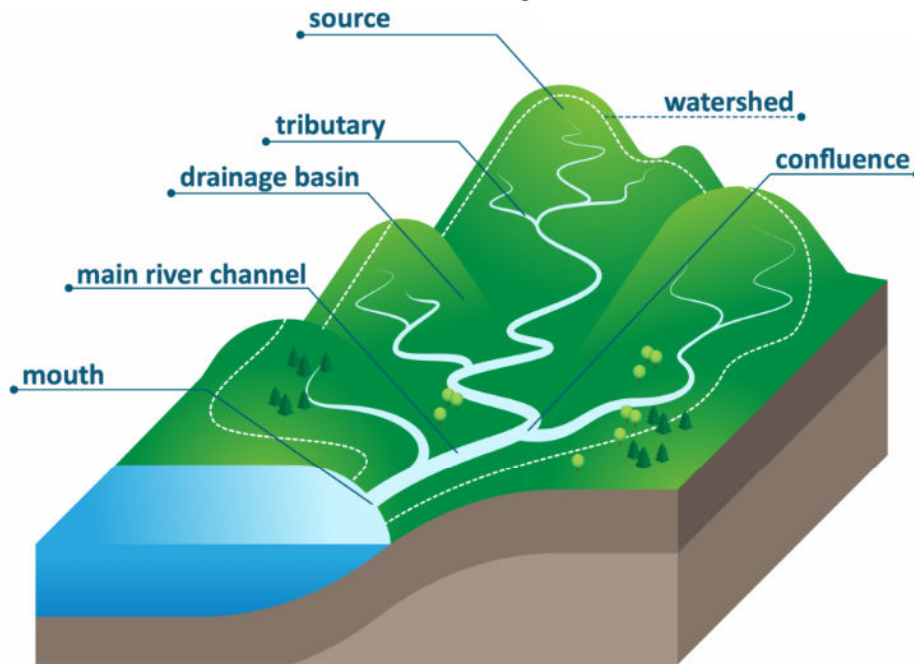
- 1.5.1 What is a *coastal low pressure cell*? (1x2) (2)
- 1.5.2 Describe the path that a coastal low-pressure cell generally follows. (1x1) (1)
- 1.5.3 Identify the winds of the coastal low-pressure cell labelled **A** and **B** on the diagram above. (1x2) (2)
- 1.5.4 Tabulate the characteristics of wind **A** of the coastal low-pressure cells on the east coast and west coast of South Africa.
- | | East Coast LP | West Coast LP |
|--------|---------------|---------------|
| Wind A | | |
- (2x1) (2)
- 1.5.5 Explain the characteristics of the wind that blows from the high pressure at H to the LP at the coast in winter. (2x2) (4)
- 1.5.6 Describe the impact that the wind labelled **A** and **B** will cause along the East Coast. (2x2) (4)

[15]



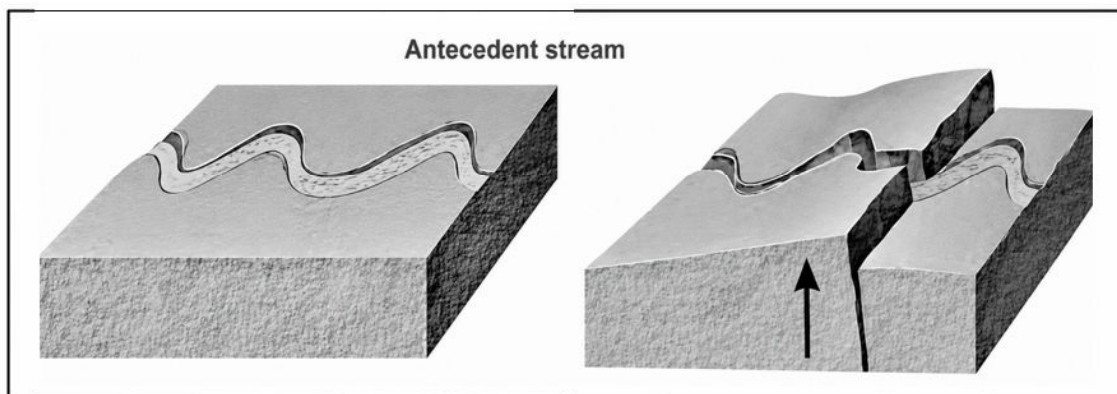
QUESTION 2: GEOMORPHOLOGY

- 2.1 Refer to the sketch on Drainage basin below to answer QUESTIONS 2.1.1 to 2.1.4. Choose the term from the diagram that matches the statement. Write only the question number and the term selected. E.g 2.1.9 Runoff



- 2.1.1 A river that joins another larger river
 2.1.2 The place where two rivers join
 2.1.3 High lying area or spurs between two river valleys
 2.1.4 An area of a high ground separating two drainage basins

Refer to the sketch on antecedent stream to answer QUESTIONS 2.1.5 to 2.1.7



Source: Via Afrika

- 2.1.5 Which one is older, the river or the geological structure?
 2.1.6 What do we call the process that changed the landscape in step 2?
 2.1.7 The deep, narrow valley formed at step 2 is a ...

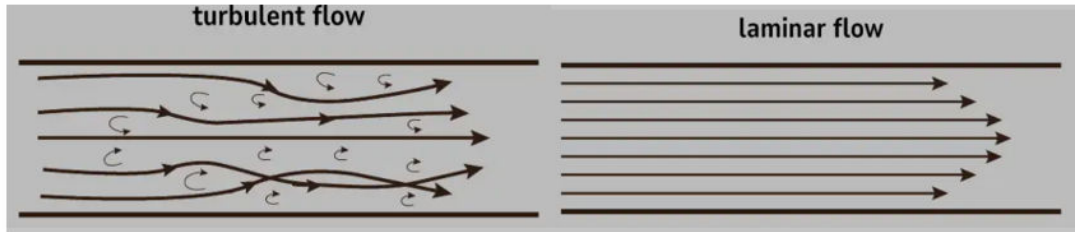
[7]



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- 2.2 The question below refer to the Discharge of a river: **Laminar flow and Turbulent flow**. Various options are provided as possible answers to the following questions. Choose the answer and write only the letter (A-D) next to the question number (2.2.1 to 2.2.8), for example 2.2.9 A.



- 2.2.1is characterized by smooth, layered movement of water.
- A Turbulent flow
B Laminar flow
C Rapid flow
D Swirling flow
- 2.2.2 Which river course is typically associated with turbulent flow?
- A Lower course
B Middle course
C Upper course
D Delta course
- 2.2.3 What is the term for the volume of water flowing through a river channel at a given point over time?
- A Velocity
B Discharge
C Erosion
D Deposition
- 2.2.4 This type of flow causes more vertical erosion than lateral erosion.
- A Laminar flow
B Turbulent flow
C Slow flow
D Steady flow
- 2.2.5 What happens to the flow of a river when it encounters a sudden drop in elevation?
- A It becomes laminar
B It becomes turbulent
C It remains the same
D It slows down



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2.2.6 The effect of turbulent flow on river deposition is...

- A Decreases deposition
- B Increases deposition
- C No effect on deposition
- D Stops deposition

2.2.7 What is the primary force driving river flow?

- A Gravity
- B Friction
- C Viscosity
- D Surface tension

2.2.8 What is the main factor influencing the type of flow in a river?

- A Riverbed roughness
- B River width
- C River velocity
- D River depth

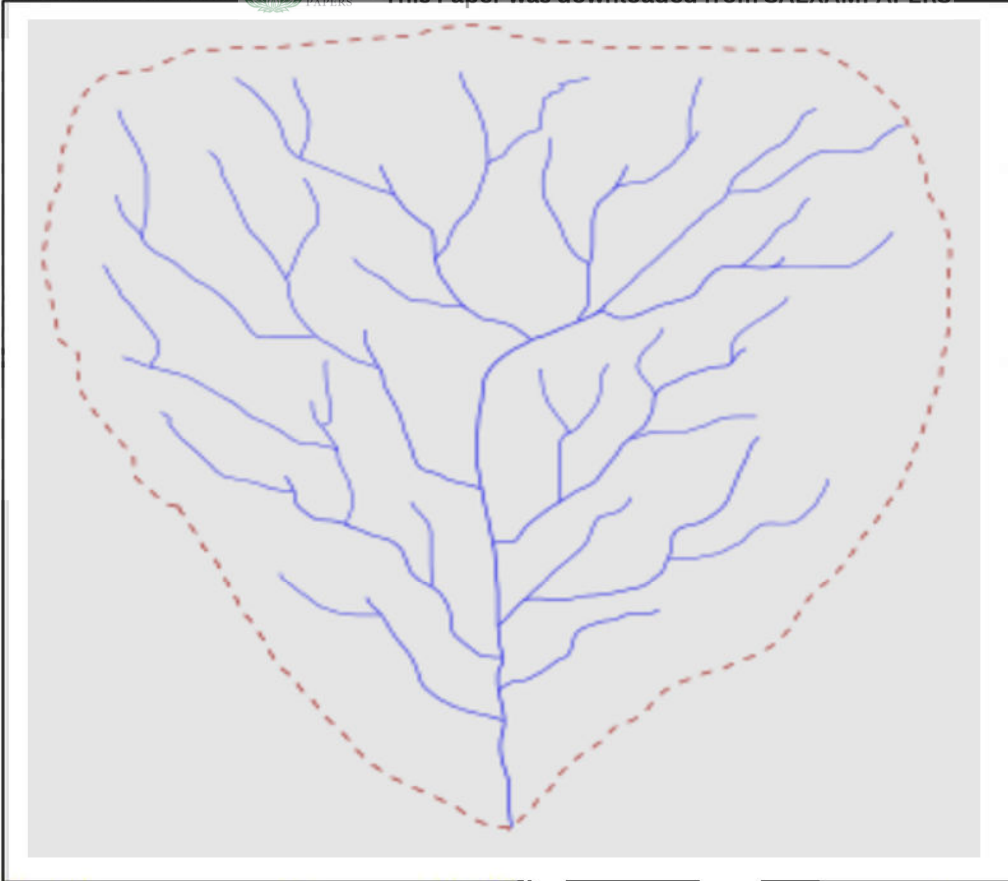
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2.3 Refer to the sketch below on drainage density



<https://mrgeogwagg.wordpress.com/2015/08/26/river-processes-and-pressures/>

- 2.3.1 Define drainage density (1x2) (2)
- 2.3.2 The drainage density in the sketch is high/ low. (1x1) (1)
- 2.3.3 What is the relationship between drainage density and stream order on the sketch? (1x2) (2)
- 2.3.4 Describe the characteristics of the drainage pattern in the sketch. (2x2) (4)
- 2.3.5 Explain how infiltration; run-off and the permeability of the rock has influenced drainage density in this drainage basin. (3x2) (6)

[15]



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2.4 Refer to the flood plain below. This Paper was downloaded from SAEXAMPAPERS



<https://eco-intelligent.com/2016/11/09/floodplains-all-you-need-to-know/>

- 2.4.1 State the geomorphological process that gave a rise to the formation of a flood plain (1x1) (1)
- 2.4.2 In which course of a river is a flood plain predominantly found? (1x1) (1)
- 2.4.3 Refer to the feature labelled **A**
- Identify the feature labelled **A**. (1x1) (1)
 - How does it form? (1x2) (2)
- 2.4.4 How do meanders contribute to the formation of floodplains? (2x2) (4)
- 2.4.5 Evaluate the long-term environmental impacts of levees on the floodplain. (3x2) (6)

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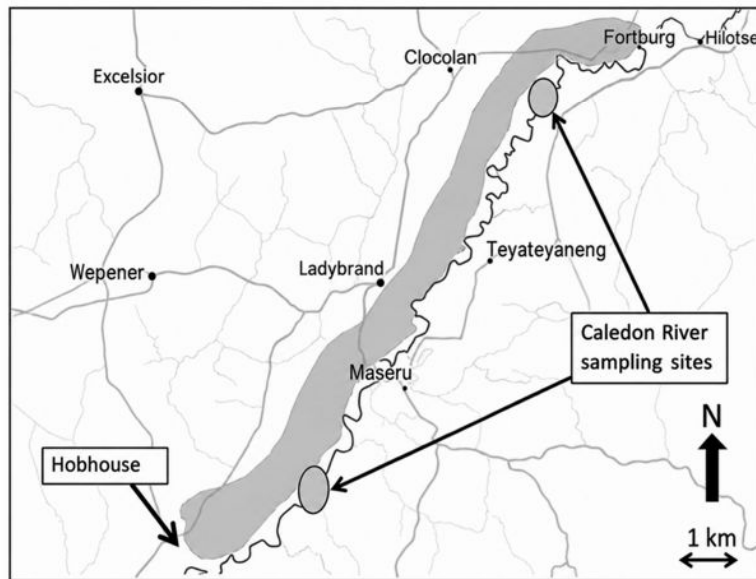
2.5 Refer to the extract below on catchment and river management.

How Does Deforestation Impact Drinking Water Supplies?**Increased Erosion and Runoff:**

Forested land does a lot of the “heavy lifting” in terms of filtration. Soil absorbs pollutants and helps to slow the rate of flowing water. The tree roots also anchor soil against erosion, which reduces runoff, and lowers downstream water treatment costs. When forests are disturbed and degraded, (from deforestation or wildfires or a combination of the two), sediment flows into streams and pollutes water

Reduced Water Quality/Access to Drinkable Water:

Scientists observed that access to source water did not mean people had more drinkable water. Deforestation increases soil erosion, resulting in higher soil, sediment, and turbidity levels in the water, increasing the need for drinking water treatment.



Can suffocate fish by blocking gills
 Can strip out dissolved oxygen
 Prevent sunlight penetrating the water
 Settle out on the bed of the river
 Blind off of gravel beds
 Combine with other contaminants

source:
<https://l1nq.com/pimetmw>

- 2.5.1 What is deforestation (1x2) (2)
- 2.5.2 Why is it important to manage our rivers (1x2) (2)
- 2.5.3 From the extract state an environmental impact of silted water (water polluted by sediments) (1x1) (1)
- 2.5.4 The Caledon River has two sampling sites. Explain the importance of these sampling sites (1x2) (2)
- 2.5.5 In a paragraph of approximately eight lines, explain how deforestation contributes to water pollution in the Caledon River and suggest sustainable strategies that the local municipality can implement to address the problem. (4x2) (8)

[15]

TOTAL: 150**SA EXAM PAPERS**

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