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REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

GEOGRAPHY P2

MAY/JUNE 2024

GEOGRAPHY: Paper 2



10782E

MARKS: 150

TIME: 3 hours

X05

This question paper consists of 19 pages.



INSTRUCTIONS AND INFORMATION

1. This question paper consists of TWO sections:

SECTION A

QUESTION 1: RURAL AND URBAN SETTLEMENTS (60)

QUESTION 2: ECONOMIC GEOGRAPHY OF SOUTH AFRICA (60)

SECTION B

QUESTION 3: GEOGRAPHICAL SKILLS AND TECHNIQUES (30)

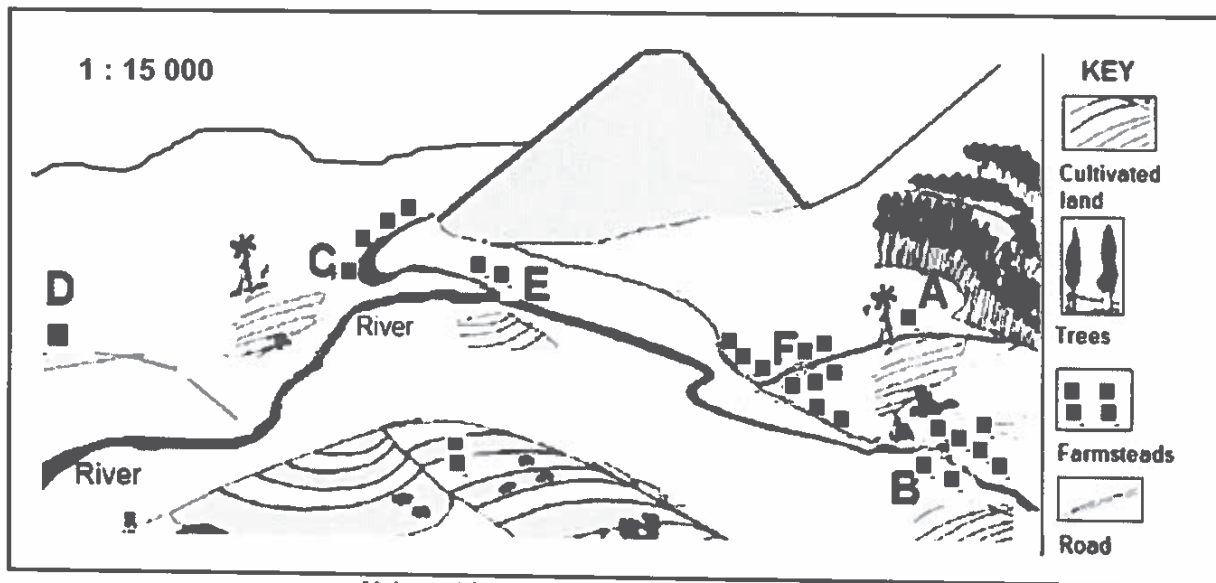
2. Answer ALL THREE questions.
3. ALL diagrams are included in the QUESTION PAPER.
4. Leave a line between the subsections of questions answered.
5. Start EACH question at the top of a NEW page.
6. Number the answers correctly according to the numbering system used in this question paper.
7. Do NOT write 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. 1020 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.

SPECIFIC INSTRUCTIONS AND INFORMATION FOR SECTION B

14. A 1 : 50 000 topographical map 2529CD MIDDELBURG and a 1 : 10 000 orthophoto map 2529 CD 5 MIDDELBURG are provided.
15. The area demarcated in RED/BLACK on the topographical map represents the area covered by the orthophoto map.
16. Show ALL calculations. Marks will be allocated for steps in calculations.
17. You must hand in the topographical and orthophoto map to the invigilator at the end of the examination.

SECTION A: RURAL AND URBAN SETTLEMENTS AND THE ECONOMIC GEOGRAPHY OF SOUTH AFRICA**QUESTION 1: RURAL AND URBAN SETTLEMENTS**

- 1.1 Refer to the sketch below on the pattern and shape of rural settlements. Write only the answer next to the question numbers (1.1.1 to 1.1.7) in the ANSWER BOOK, e.g. 1.1.8 circular.



[Adapted from <https://www.google.com/search?q=types of rural settlements>]

- 1.1.1 The settlement pattern at **A** is ...
- 1.1.2 The settlement pattern at **B** is ...
- 1.1.3 Settlement (**A/B**) is likely to generate more profit.
- 1.1.4 The river caused the settlement at **C** to have a ... shape.
- 1.1.5 The shape of the settlement at **F** is ...
- 1.1.6 **D** is located on high ground due to the threat of flooding and is called a ... settlement.
- 1.1.7 **E** is close to a supply of water and is referred to as a ... settlement.
- (7 x 1) (7)

1.2 Various terms/concepts are provided as possible answers to the following statements. Choose the answer and write only the letter (A–D) next to the question numbers (1.2.1 to 1.2.8) in the ANSWER BOOK, e.g. 1.2.9 D.

1.2.1 A ... is an area, where a group of people live, that has buildings, communication networks and functions.

- A site
- B property
- C settlement
- D situation

1.2.2 ... is the process whereby an increasing percentage of people live in urban areas as compared to rural areas.

- A Urban sprawl
- B Urban growth
- C Urban renewal
- D Urbanisation

1.2.3 ... is the formless growth of urban areas.

- A Urban growth
- B Urban expansion
- C Urban sprawl
- D Urban blight

1.2.4 The physical growth of an urban settlement is referred to as urban ...

- A expansion.
- B profile.
- C growth.
- D decay.

1.2.5 The increase in the number of people living in urban areas is known as ...

- A urbanisation.
- B urban growth.
- C urban expansion.
- D urban migration.

- 1.2.6 The largest increase in the level of urbanisation in South Africa is from ...

YEAR	2018	2019	2020	2021	2022
Percentage of people living in urban areas	66,4%	66,9%	67,2%	67,9%	68,3%

- A 2018 to 2019.
B 2019 to 2020.
C 2020 to 2021.
D 2021 to 2022.

- 1.2.7 The ... of urbanisation refers to the pace at which urbanisation takes place.

- A rate
B speed
C growth
D level

- 1.2.8 The advantages of counterurbanisation for urban areas are decreased ...

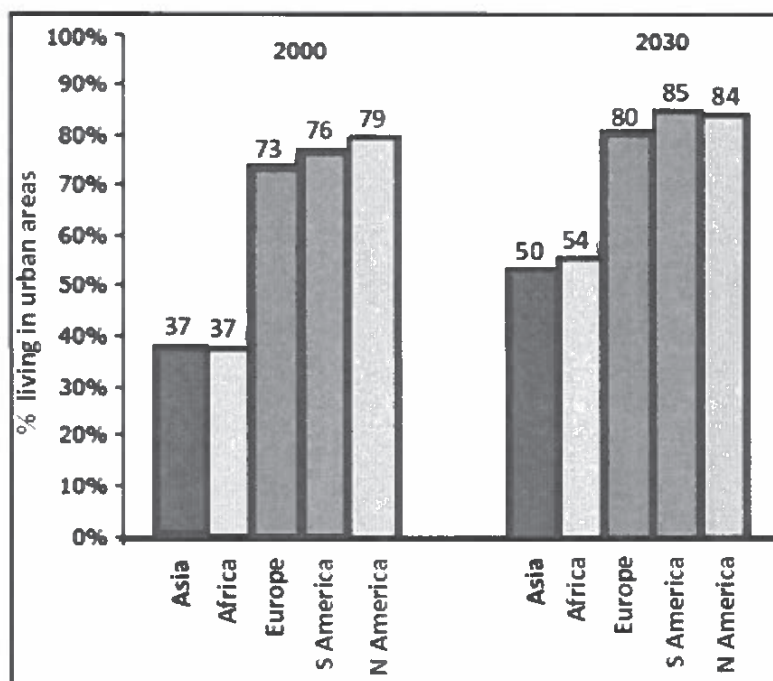
- (i) pollution.
(ii) land value.
(iii) aesthetic appeal.
(iv) traffic congestion.

- A (i) and (ii)
B (ii) and (iii)
C (i) and (iv)
D (ii) and (iv)

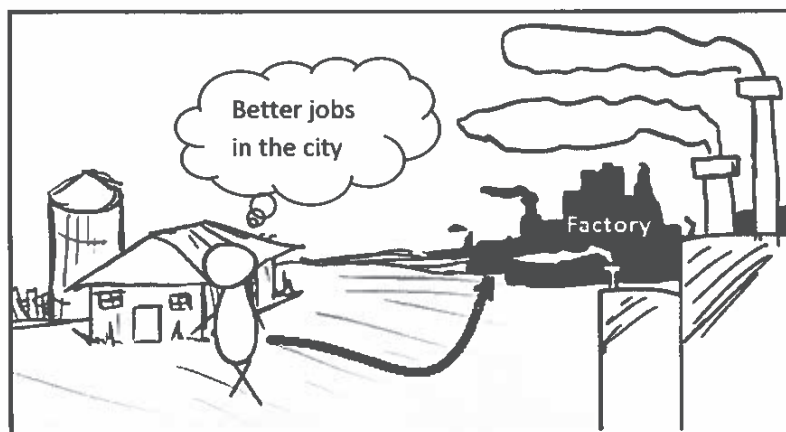
(8 x 1) (8)

1.3 Refer to the graph and cartoon below showing rural-urban migration.

PREDICTED (EXPECTED) DIFFERENCE IN THE PERCENTAGE INCREASE OF PEOPLE THAT MOVED FROM RURAL TO URBAN AREAS BETWEEN 2000 AND 2030



[Adapted from www.coolgeography]



[Adapted from www.google.com/search?q=rural+urban+migration+&tbm]

- 1.3.1 Which continent is predicted (expected) to have the highest percentage of people that would move to urban areas between 2000 and 2030? (1 x 1) (1)
- 1.3.2 Determine the predicted (expected) difference in the percentage of people (answer to QUESTION 1.3.1) that would have moved between 2000 and 2030. (1 x 2) (2)

QUESTION 2: ECONOMIC GEOGRAPHY OF SOUTH AFRICA

2.1 Various terms/concepts are provided as possible answers to complete the following statements. Choose the answer and write only the letter (A–D) next to the question numbers (2.1.1 to 2.1.8) in the ANSWER BOOK, e.g. 2.1.9 D.

2.1.1 ... core industrial region contributes the lowest percentage to the GDP in South Africa.

CORE INDUSTRIAL REGION	CONTRIBUTION TO GDP
Durban-Pinetown	16,3%
South-western Cape	14,2%
Gauteng (PWV)	35,2%
Port Elizabeth-Uitenhage	7,9%

- A Durban-Pinetown
- B Port Elizabeth-Uitenhage
- C Gauteng (PWV)
- D South-western Cape

2.1.2 The ... is the main source of water for the Gauteng (PWV) core industrial region.

- A Sterkfontein Dam
- B Orange River
- C Vaal Dam
- D Sundays River

2.1.3 Access to ... is an advantage of the Port Elizabeth-Uitenhage core industrial region compared to the Gauteng (PWV) core industrial region.

- A coal
- B airports
- C diamonds
- D harbours

2.1.4 ... is the main industry located in the Gauteng (PWV) core industrial region.

- A Iron and steel
- B Car assembly
- C Sugar refining
- D Fish canning

2.1.5 The Coega Industrial Development Zone is found in the ... core industrial region.

- A Gauteng (PWV)
- B Port Elizabeth-Uitenhage
- C Durban-Pinetown
- D South-western Cape

2.1.6 The main raw materials found in the Gauteng (PWV) core industrial region include ... and ...

- (i) gold
- (ii) fruit
- (iii) iron ore
- (iv) fish

- A (i) and (ii)
- B (i) and (iii)
- C (i) and (iv)
- D (ii) and (iv)

2.1.7 The dominant industrial activities in the Port Elizabeth-Uitenhage core industrial region are ...

- A car assembly and textiles.
- B chemicals and metal processing.
- C oil and sugar refining.
- D food processing and ship building.

2.1.8 The disadvantages of industrial centralisation to the Gauteng (PWV) core industrial region are ...

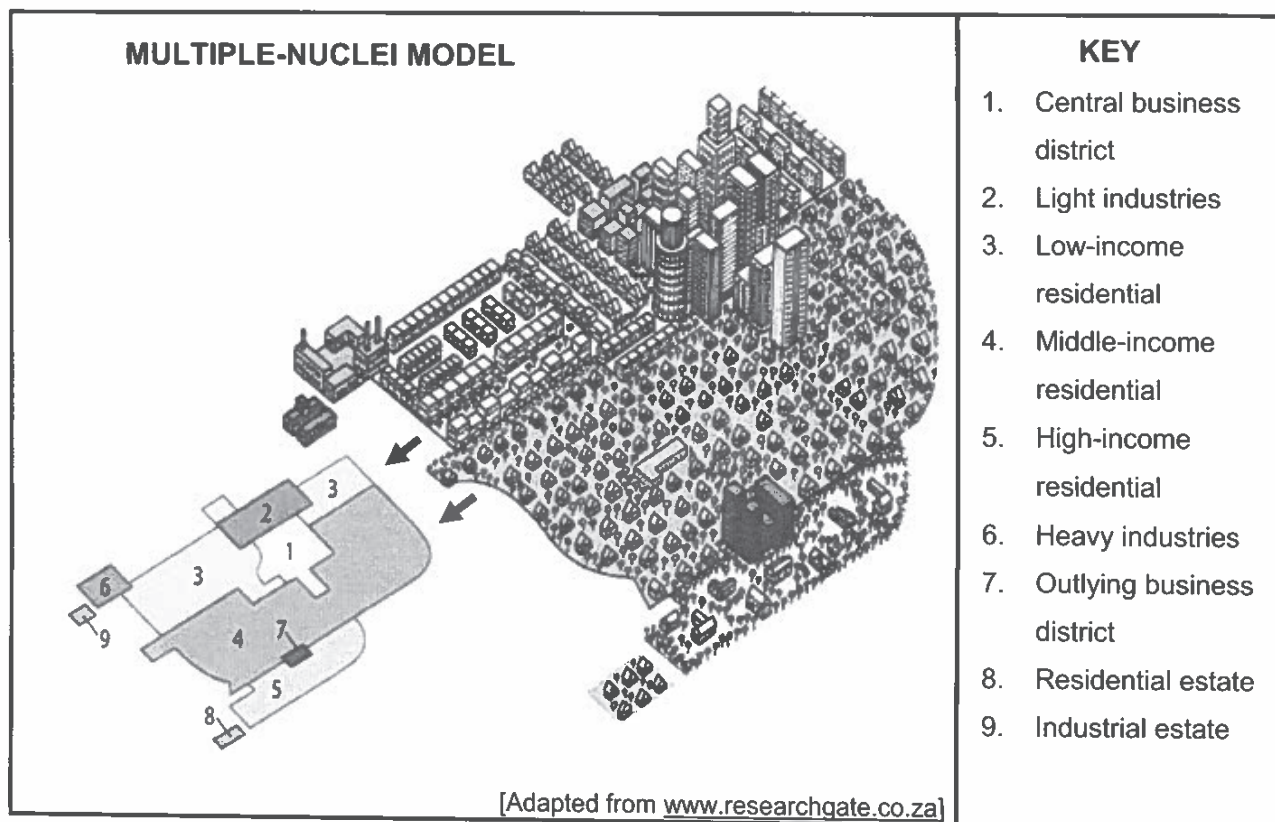
- (i) water shortages.
- (ii) a small labour force.
- (iii) small markets.
- (iv) air pollution.

- A (i) and (ii)
- B (ii) and (iii)
- C (i) and (iv)
- D (ii) and (iv)

(8 x 1) (8)

- 1.3.3 Why will the rate of urbanisation of the continent (answer to QUESTION 1.3.1) be so high? (1 x 2) (2)
- 1.3.4 Why does the pull factor, indicated in the cartoon, often lead to disappointment? (2 x 2) (4)
- 1.3.5 Suggest strategies that could be implemented in rural areas to reduce the rate of urbanisation. (3 x 2) (6)

1.4 Refer to the sketch below on the multiple-nuclei model.



- 1.4.1 State TWO characteristics of the multiple-nuclei model evident in the sketch. (2 x 1) (2)
- 1.4.2 Identify land-use zone 1. (1 x 1) (1)
- 1.4.3 Account for the location of land-use zone 1. (1 x 2) (2)
- 1.4.4 Explain how the development of the outlying business district (OBD), labelled 7, was influenced by:
- (a) Crime rate (1 x 2) (2)
 - (b) Traffic congestion (1 x 2) (2)
- 1.4.5 Why will the multiple-nuclei model depicted in the sketch not apply to all urban areas? (3 x 2) (6)

- 1.5 Refer to the photograph and extract below on urban blight (urban decay).



**RECLAIMING THE TRANSITION
ZONE (ZONE OF DECAY)**

City neighbourhoods, such as the Maboneng Precinct and Fordsburg, have a fast-developing modern feel about them. Rental prices within them have increased accordingly. This is due to improvements to attract more middle-income residents: the process of gentrification resulted in the renovation of old buildings. The social cost of redevelopment has been illustrated by a wave of evictions of the original residents who have lived in unsafe and abandoned buildings, often for decades, because they could not afford better accommodation.

[Adapted from <https://www.news24.com/citypress/voices/-reclaiming-inner-cities-to-solve-our-housing-crisis>]

- | | | | |
|-------|--|---------|-------------|
| 1.5.1 | Define the concept <i>urban blight</i> . | (1 x 2) | (2) |
| 1.5.2 | Give evidence from the photograph that urban blight has taken place. | (1 x 1) | (1) |
| 1.5.3 | Why is urban blight more dominant in the transition zone (zone of decay) than in other land-use zones? | (2 x 2) | (4) |
| 1.5.4 | In a paragraph of approximately EIGHT lines, explain the positive impact of gentrification on the transition zone (zone of decay). | (4 x 2) | (8) |
| | | | [60] |

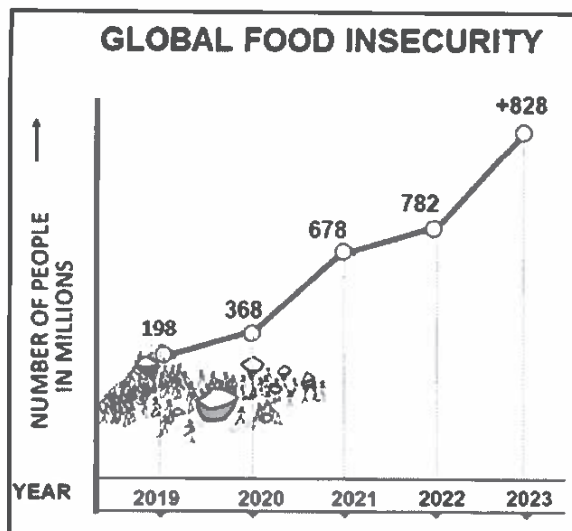
- 2.2 Choose an answer from COLUMN B that matches the statement in COLUMN A. Write only the letter **Y** or **Z** next to the question numbers (2.2.1 to 2.2.7) in the ANSWER BOOK, e.g. 2.2.8 **Z**.

COLUMN A		COLUMN B	
2.2.1	Term used for unregistered businesses	Y	formal sector
		Z	informal sector
2.2.2	Characteristic of the informal sector	Y	workers are self-employed
		Z	workers are employed by a national enterprise (business)
2.2.3	Reason for a high number of immigrants entering the informal sector	Y	lack of documentation
		Z	availability of jobs
2.2.4	Example of an informal sector	Y	PEP stores
		Z	car guard
2.2.5	Benefit for consumers buying goods from an informal trader	Y	quality products at a higher price
		Z	goods can be purchased at a lower price
2.2.6	Reason for the growth of the informal sector in South Africa	Y	limited jobs available in the formal sector
		Z	jobs available in the formal sector
2.2.7	Challenge facing the informal sector	Y	provision of low interest loans
		Z	exposed to harsh weather conditions

(7 x 1) (7)



2.3 Refer to the graph and extract below on food insecurity.



[Adapted from <https://www.google.com/url?sa=i&url=https%3A%2F%-infographics%2Fhunger>]

Until recently, food insecurity has been largely linked to climate change, the Covid pandemic and poverty. Availability of food has now become an important issue.

Today conflict between countries have resulted in wars (like the conflict between Russia and Ukraine), which has increased trade-related policies* imposed by countries. This has resulted in a number of global food trade restrictions being put in place by countries in order to increase domestic (local) supply. More recently, 20 countries have implemented 27 food export bans, and ten have implemented 14 export-limiting measures.

The main products imported by South Africa are wheat, maize, soya beans and sunflower seeds. The impact of reducing South Africa's imports has resulted in increasing food prices and higher inflation rates in South Africa.

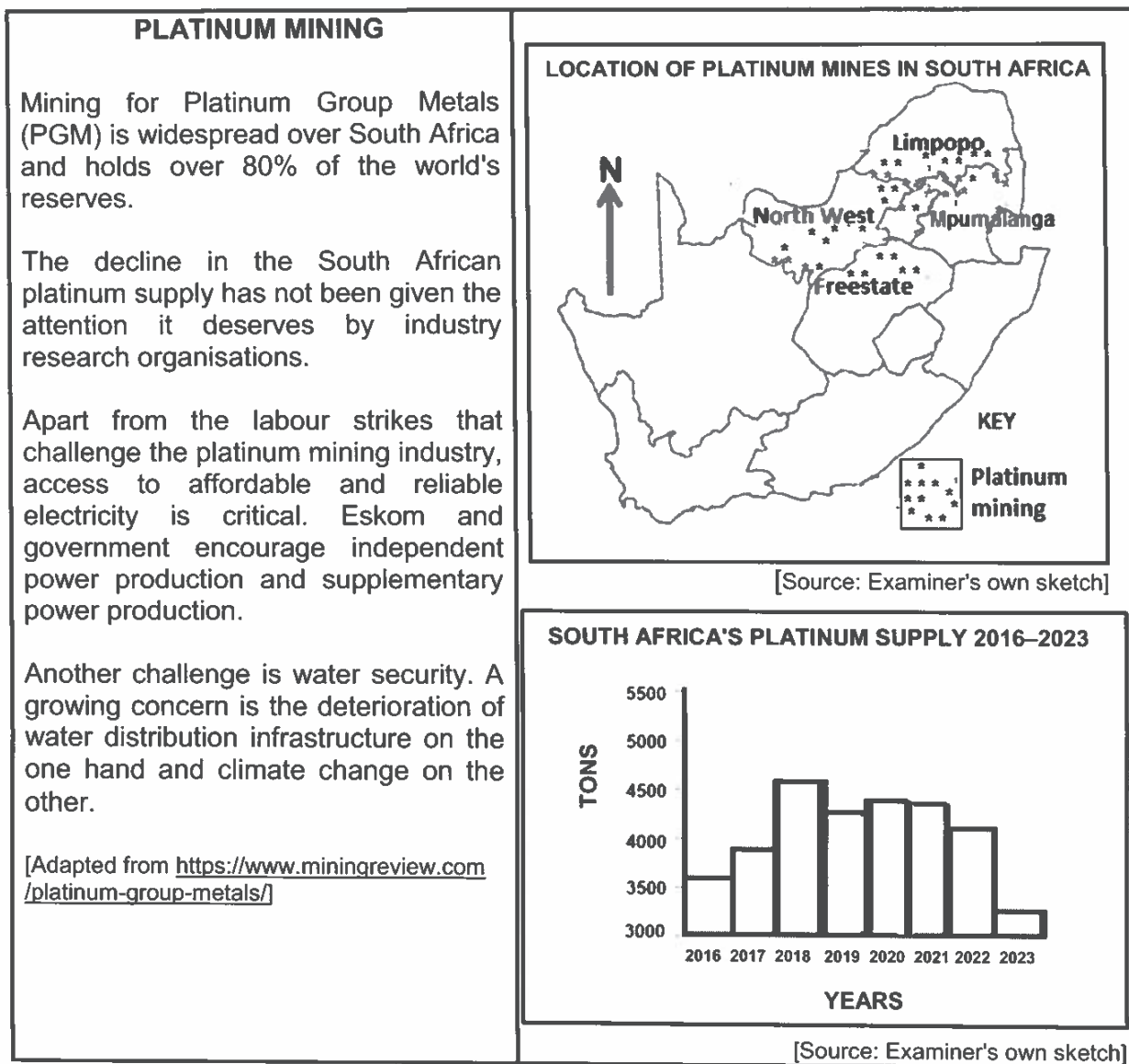
Glossary:

* Trade-related policies are policies related to the importation and exportation of goods between countries.

[Adapted from <https://www.worldbank.org/en/topic/agriculture/brief/food-security-update#>]

- 2.3.1 State the trend evident on the graph with regard to global food insecurity from 2019 to 2023. (1 x 1) (1)
- 2.3.2 According to the extract, what are the reasons for the trend shown on the graph? (2 x 1) (2)
- 2.3.3 What positive impact could the global food trade restriction measures have on South Africa? (1 x 2) (2)
- 2.3.4 Explain how TWO physical factors negatively impact South Africa's food production. (2 x 2) (4)
- 2.3.5 Suggest measures that government can implement (put in place) to support farmers in achieving food security in South Africa. (3 x 2) (6)

2.4 Refer to the infographic below on platinum mining.



- 2.4.1 What percentage of the world's platinum reserves does South Africa have? (1 x 1) (1)
- 2.4.2 Give evidence from the extract that platinum production in South Africa is influenced (affected) by a:
- (a) Social factor
- (b) Service delivery factor (2 x 1) (2)
- 2.4.3 Refer to the map and name TWO provinces where platinum is mined. (2 x 1) (2)



- 2.4.4 Describe the general trend of the platinum supply between 2016 and 2018 and between 2020 to 2023, by referring to the graph. (2 x 1) (2)
- 2.4.5 In a paragraph of approximately EIGHT lines, suggest strategies that government can implement (put in place) to address challenges of platinum production. (4 x 2) (8)
- 2.5 Refer to the extract below on the Wild Coast Spatial Development Initiative (SDI).

N2 WILD COAST TOLL ROAD PROJECT – AN INCENTIVE FOR SUSTAINED DEVELOPMENT

The Wild Coast would be well served by the development of a road system to encourage tourism and open up the region to economic opportunities.

The N2 Wild Coast toll road project will benefit the local community during the construction process, as a number of direct jobs will be created. The new route will also provide a safer road network which will allow those living along the new road to benefit from road interchanges, pedestrian walkways, bridges and agricultural underpasses for livestock.

The social and economic impacts of the project will offer a significant injection for the local communities. It is estimated that income for the local industry will increase by R360,4 million and construction work will create 6 800 direct jobs, and between 21 300 and 28 100 indirect jobs.

The project to upgrade the N2 Wild Coast road from East London to Port Edward is an important initiative to unlock economic opportunities in some of the most impoverished (poorest) parts of the country.

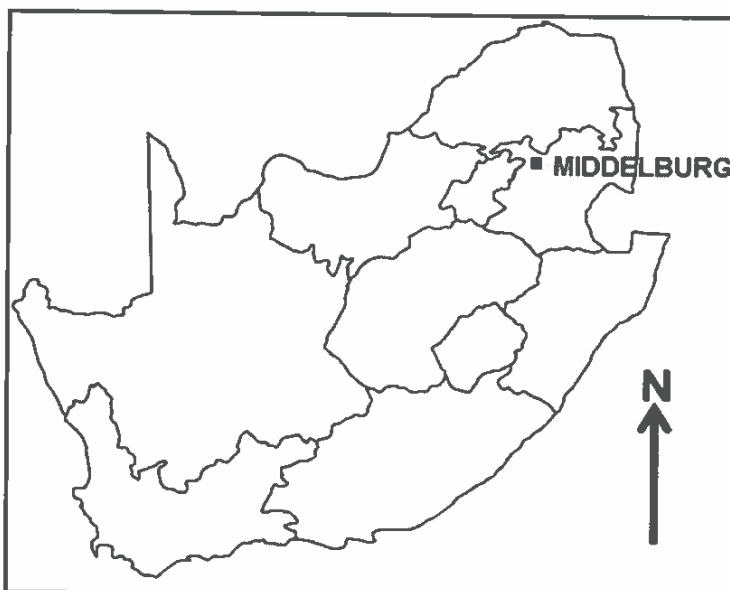
However, cultural beliefs and traditional values are in conflict with economic development of the Wild Coast Spatial Development Initiative.

[Adapted from Sanral]

- 2.5.1 State ONE key objective of Spatial Development Initiatives (SDI) in South Africa. (1 x 1) (1)
- 2.5.2 In which province is the Wild Coast Spatial Development Initiative (SDI) located? (1 x 1) (1)
- 2.5.3 According to the extract, by how much will the income of the local industries increase? (1 x 1) (1)

- 2.5.4 State TWO physical factors that would encourage tourism in the Wild Coast Spatial Development Initiative (SDI). (2 x 1) (2)
- 2.5.5 How would the N2 Wild Coast toll road project encourage economic development of the Wild Coast Spatial Development Initiative (SDI)? (2 x 2) (4)
- 2.5.6 Explain why the Wild Coast Spatial Development Initiative (SDI) has experienced challenges with regard to achieving its key objectives (goals). (3 x 2) (6)
- [60]**

TOTAL SECTION A: 120

SECTION B**QUESTION 3: GEOGRAPHICAL SKILLS AND TECHNIQUES****GENERAL INFORMATION ON MIDDELBURG**

Coordinates: 25°45'S; 29°25'E

Middelburg is a town situated in Mpumalanga in South Africa. It lies midway between Pretoria and Lydenburg.

Mpumalanga accounts for approximately 83 per cent of South Africa's coal production and Eskom owns 12 (of its 15) coal-fired power plants located in and around this area. Middelburg is well known as the stainless-steel capital of Africa. It is home to a large stainless-steel plant named Columbus Stainless.

Middelburg has plenty to offer all travelers, from fascinating cultural tours to adrenaline pumping watersports in pristine dam areas. Middelburg is the ideal holiday destination.

[Adapted from <https://en.wikipedia.org/wiki/Mpumalanga>]

The following English terms and their Afrikaans translations are shown on the topographical map:

ENGLISH

Golf course

Landing strip

Furrow

Sewage disposal works

AFRIKAANS

Gholfbaan

Landingstrook

Voor

Rioolsuiweringswerke



3.1 MAP SKILLS AND CALCULATIONS

3.1.1 In which province is Middelburg located?

- A Gauteng
- B Mpumalanga
- C KwaZulu-Natal
- D Eastern Cape

(1 x 1) (1)

Refer to block **A5** on the topographical map and the building labelled **6** on the orthophoto map.

3.1.2 (a) The scale of the topographical map is (smaller/larger) than the scale of the orthophoto map. (1 x 1) (1)

(b) Refer to the building labelled **6** on the orthophoto map to give a reason for your answer to QUESTION 3.1.2(a). (1 x 1) (1)

3.1.3 Calculate the vertical exaggeration of a cross-section on a topographical map.

Use the following information:

Vertical scale: 1 : 2 000 (3 x 1) (3)

Formula: **Vertical Exaggeration** = $\frac{\text{Vertical Scale (VS)}}{\text{Horizontal Scale (HS)}}$

3.1.4 Give ONE reason for exaggerating the vertical scale when drawing a cross-section. (1 x 1) (1)

Refer to block **D2** on the orthophoto map.

3.1.5 Calculate the area of the block in square metres (m²).

Use the following information:

Length: 4,2 cm

Breadth: 3,8 cm

Formula: **Area** = **Length (L) x Breadth (B)** (3 x 1) (3)

3.2 MAP INTERPRETATION

3.2.1 The residential area **F** in block **B2** on the topographical map is a (high/low)-income residential area. (1 x 1) (1)

3.2.2 Give evidence from the topographical map to support your answer to QUESTION 3.2.1. (1 x 2) (2)

Refer to the landing strip **G** in block **C4** and **D4** on the topographical map.

3.2.3 (a) Name the land-use zone in which the landing strip is located. (1 x 1) (1)

(b) Give evidence from the topographical map to show that the landing strip is ideally located. (1 x 2) (2)

Refer to blocks **C5** and **D5** on the orthophoto map.

3.2.4 The type of farming evident is (small-scale/large-scale) farming. (1 x 1) (1)

3.2.5 Give evidence to support your answer to QUESTION 3.2.4. (1 x 2) (2)

Refer to block **B5** on the topographical map.

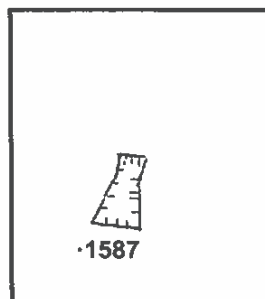
3.2.6 Name the secondary activity evident in this area. (1 x 1) (1)

3.2.7 Why is this activity (answer to QUESTION 3.2.6) necessary for economic development to take place in this area? (1 x 2) (2)

3.3 GEOGRAPHICAL INFORMATION SYSTEMS (GIS)

- 3.3.1 Data integration is an analysis of (single/multiple) data sources. (1 x 1) (1)

Refer to block **E2** on the topographical map and the sketch below that represents block **E2**.



- 3.3.2 (a) **H** in block **E2** on the topographical map represents a (point/polygon) symbol. (1 x 1) (1)

Redraw the block above in the ANSWER BOOK.

- (b) In the redrawn block, draw a line symbol that represents a natural feature found east of spot height 1587 in block **E2** on the topographical map. (1 x 1) (1)
- (c) How did the integration of the spot height in the sketch and the symbol you have drawn assist in determining the location of the dam wall at **J**? (1 x 2) (2)

Refer to the vacant land found in area **7** on the orthophoto map.

- 3.3.3 What term does a GIS specialist use to refer to the vacant land that separates the river from the built-up area? (1 x 1) (1)
- 3.3.4 Give ONE reason why there is a need for this vacant land. (1 x 2) (2)

TOTAL SECTION B: 30
GRAND TOTAL: 150