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GRADE 12

GEOGRAPHY P2

NOVEMBER 2023

GEOGRAPHY: Paper 2



10782E

MARKS: 150

TIME: 3 hours

X10



This question paper consists of 18 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 3325DC & DD & 3425BA GQEBERHA (PORT ELIZABETH) and a 1 : 10 000 orthophoto map 3325 DC 23 GQEBERHA (PORT ELIZABETH) 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 this examination.

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

- 1.1 Choose a term/concept from COLUMN B that matches the statement in COLUMN A. Write only the letter (Y or Z) next to the question numbers (1.1.1 to 1.1.7) in the ANSWER BOOK, e.g. 1.1.8 Y.

COLUMN A		COLUMN B	
1.1.1	The function of a rural settlement	Y	multifunctional
		Z	unifunctional
1.1.2	The site of a settlement	Y	the exact land occupied by a settlement
		Z	the location of a settlement in relation to its surroundings
1.1.3	Purpose of land reform in South Africa	Y	increases access to water
		Z	decreases poverty
1.1.4	Ensures communal land rights of farm workers	Y	land tenure
		Z	land redistribution
1.1.5	Government allocates land to previously disadvantaged people	Y	land restitution
		Z	land redistribution
1.1.6	Challenge associated with land reform	Y	willing buyer/seller clause
		Z	more commercial farmers
1.1.7	The result of well-managed land reform	Y	equal access to land
		Z	unequal access to land

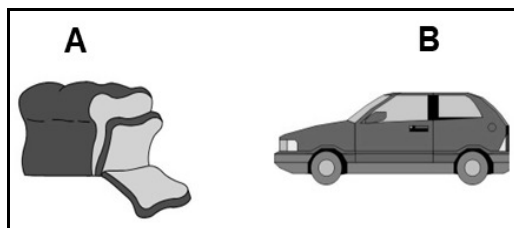
(7 x 1) (7)

- 1.2 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 numbers (1.2.1 to 1.2.8) in the ANSWER BOOK, e.g. 1.2.9 D.

1.2.1 A central place town ...

- A offers high-order goods and services.
- B offers only rural functions.
- C services the surrounding rural area.
- D services only the urban area.

1.2.2 **A** is classified as a low-order good compared to **B** because **A** ...



[Source: <https://www.google.com/low/high-order goods>]

- A is a luxury item and not needed daily.
- B has a lower price and is consumed regularly.
- C is non-perishable and not consumable.
- D has a higher price and is purchased less often.

1.2.3 Range refers to the ... to buy a product.

- A minimum distance travelled
- B minimum customers required
- C maximum distance travelled
- D maximum customers required

1.2.4 The range of a high-order good is ...

- A small due to its daily use.
- B large due to its daily use.
- C small due to its high cost.
- D large due to its high cost.

1.2.5 ... refers to the minimum number of customers needed to make a business profitable.

- A Central place
- B Threshold population
- C Range of goods
- D Sphere of influence

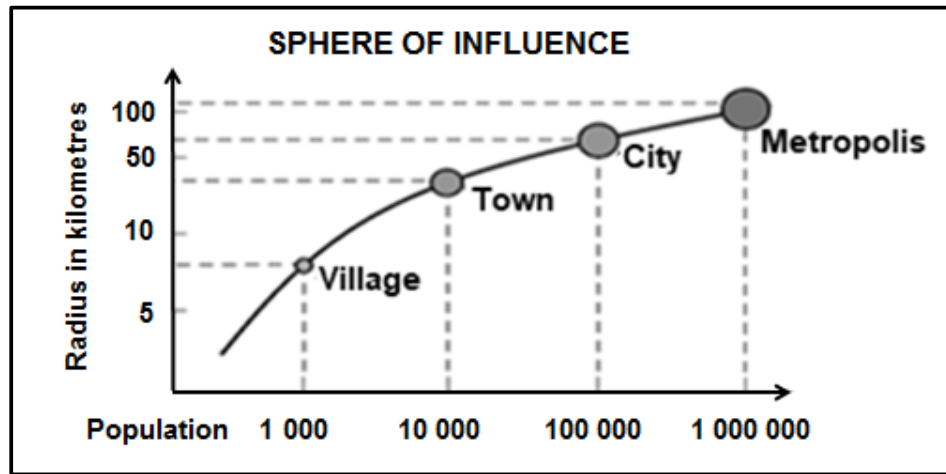
1.2.6 The threshold population of a grocery store is ...

- A low because it has more high-order goods.
- B high because it has more low-order goods.
- C high because it has more high-order goods.
- D low because it has more low-order goods.

1.2.7 The area from which a settlement draws its customers is its ...

- A threshold population.
- B sphere of influence.
- C service area.
- D maximum range.

- 1.2.8 The sphere of influence of a city is greater than a village because it has a ...



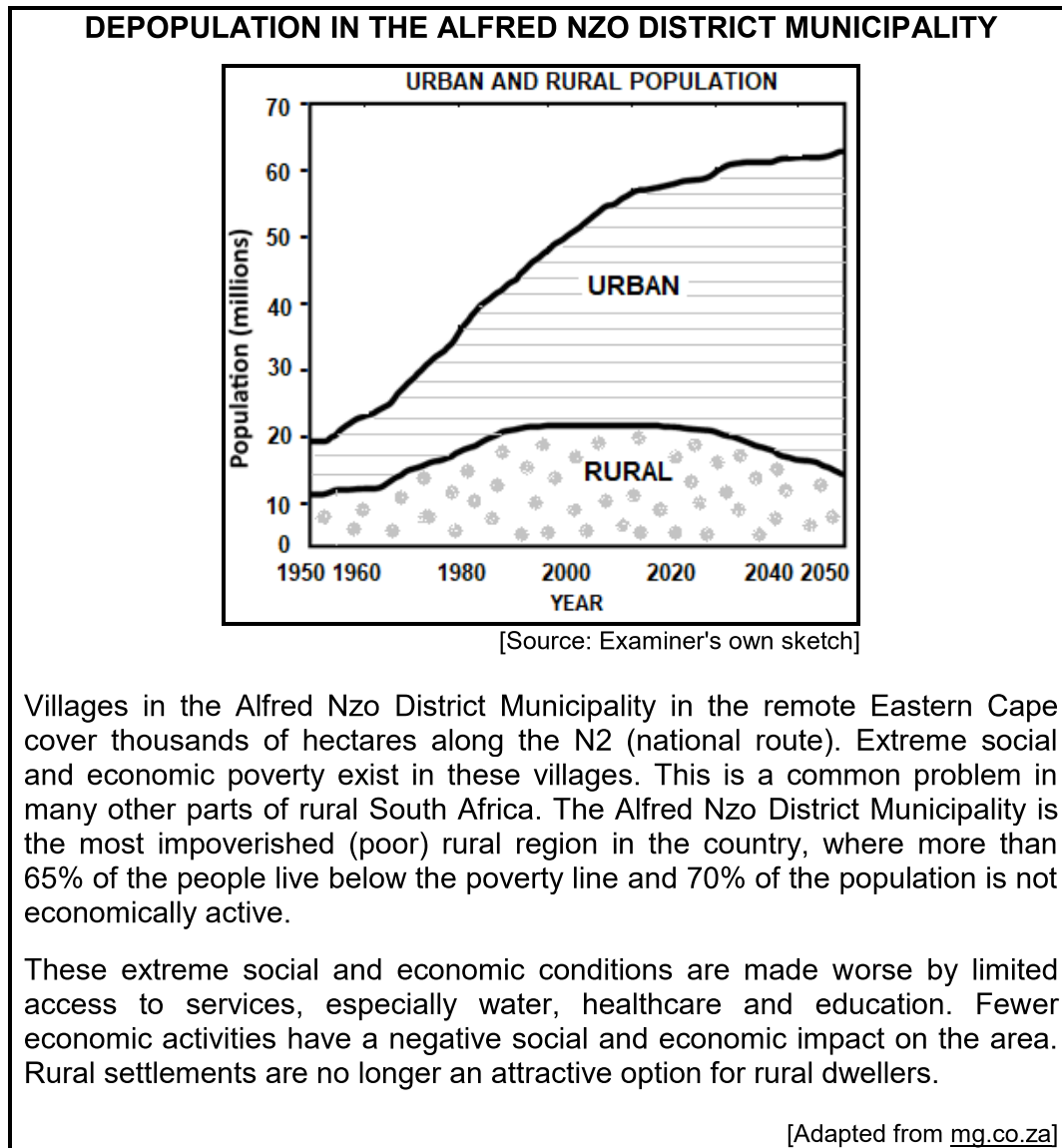
[Source: [https://www.google.com/search?sphere of influence](https://www.google.com/search?sphere+of+influence)]

- (i) population of 1 000.
- (ii) smaller radius.
- (iii) population of 100 000.
- (iv) larger radius.

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

(8 x 1) (8)

1.3 Refer to the extract and graph below based on rural depopulation.



- 1.3.1 What evidence on the graph indicates that rural depopulation has been taking place since 2020? (1 x 1) (1)
- 1.3.2 Name TWO social services in the extract that are lacking in the Alfred Nzo District. (2 x 1) (2)
- 1.3.3 Give TWO possible reasons for the lack of social services in the Alfred Nzo District. (2 x 2) (4)
- 1.3.4 Why do rural settlements experience a negative economic impact as a result of rural depopulation? (2 x 2) (4)
- 1.3.5 Suggest sustainable measures that could be implemented by municipalities of rural areas to reduce this negative economic impact. (2 x 2) (4)

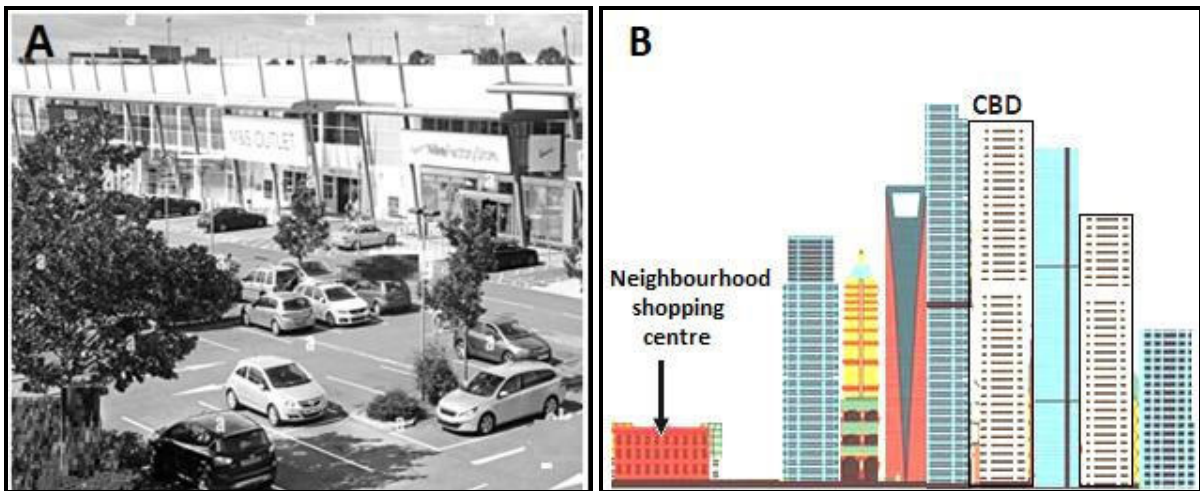
- 1.4 Refer to the extract, photograph **A** and sketch **B** based on commercial decentralisation.

CBD DECENTRALISATION HERE TO STAY

A central business district (CBD) is the original commercial business centre of a city. There are now many outlying business districts (OBD) caused by commercial decentralisation. Apart from the physical expansion of urban settlements that made CBDs more difficult to reach, the causes for growing decentralisation of businesses include high rents, crime, pollution and the lack of parking.

Well-located decentralised nodes remain sought-after for businesses looking for secure premises for their companies, park-like surroundings and sufficient parking facilities. Office parks, neighbourhood shopping centres and regional shopping centres are often close to sought-after residential areas (suburbs) which provide a customer base.


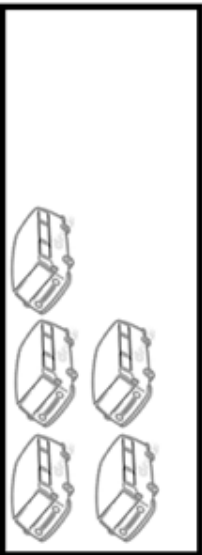
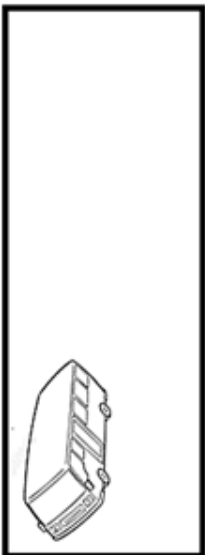
[Adapted from *Deccan Chronicle* by GA Rice, in *International Encyclopaedia of Human Geography*]



[Source: https://www.google.com/search?tbs=sbi:AMhZZivd3Zv_1RXZ2VGag]

- 1.4.1 Define the concept *commercial decentralisation*. (1 x 2) (2)
- 1.4.2 State ONE factor evident in the CBD (photograph **B**) that encourages commercial decentralisation. (1 x 1) (1)
- 1.4.3 How do high rentals and crime (mentioned in the extract) lead to increasing commercial decentralisation? (2 x 2) (4)
- 1.4.4 Explain why neighbourhood shopping centres are an attractive option for the location of businesses. (2 x 2) (4)
- 1.4.5 How can the increase in the number of neighbourhood shopping centres have a negative impact on businesses in the CBD? (2 x 2) (4)

- 1.5 Refer to the source below on the influence of public transport systems on traffic congestion.

60 commuters in 24 cars	60 commuters in 5 minibus taxis	60 commuters in 1 bus
		

THE IMPACT OF PUBLIC TRANSPORT ON TRAFFIC CONGESTION

The use of public transport is encouraged because it reduces traffic congestion.

In South Africa, the most common form of public transport is the use of minibus taxis. Although public transport (e.g. minibus taxis and buses) plays a valuable role in reducing the number of private vehicles on the road, it is associated with a number of challenges. These challenges are associated with economic injustices to commuters*.

Glossary:
*commuters: people who travel from home to work daily

[Source: Examiner's own sketch]

- 1.5.1 According to the source, which type of transport would create the most traffic congestion? (1 x 1) (1)
- 1.5.2 Give a reason for your answer to QUESTION 1.5.1. (1 x 2) (2)
- 1.5.3 How can improved public transport systems decrease traffic congestion? (2 x 2) (4)
- 1.5.4 In a paragraph of approximately EIGHT lines, explain why the use of public transport such as minibus taxis and buses could be an economic injustice (concern) to commuters. (4 x 2) (8)

[60]



QUESTION 2: ECONOMIC GEOGRAPHY OF SOUTH AFRICA

2.1 Choose the correct word(s) from those given in brackets. Write only the word(s) next to the question numbers (2.1.1 to 2.1.7) in the ANSWER BOOK, e.g. 2.1.8 Mining.

- 2.1.1 Mining is an example of a (primary/secondary) economic activity.
- 2.1.2 The price of minerals fluctuates in the mining industry due to the (foreign exchange/foreign investment) rate.
- 2.1.3 (Geothermal gradient/Unskilled labour) is an example of a physical factor that affects mining.
- 2.1.4 Platinum is an example of a (renewable/non-renewable) resource.
- 2.1.5 Platinum is mined in South Africa in the (Western Cape/North West).
- 2.1.6 Platinum is used as a raw material in the production/generation of (power/jewellery).
- 2.1.7 (Labour unrest/Labour availability) in South Africa impacts negatively on the production of platinum. (7 x 1) (7)

2.2 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 numbers (2.2.1 to 2.2.8) in the ANSWER BOOK, e.g. 2.2.9 D.

- 2.2.1 The tertiary sector is also referred to as the ... sector.
- A informal
B service
C health
D transport
- 2.2.2 An example of an activity in the tertiary sector is ...
- A mining for gold.
B manufacturing wine.
C foreign exchange.
D canning beans.

2.2.3 Countries that are dominated by the tertiary sector reflect a/an ...

- (i) highly skilled labour force.
- (ii) poorly skilled labour force.
- (iii) efficient transport system.
- (iv) variety of mining activities.

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

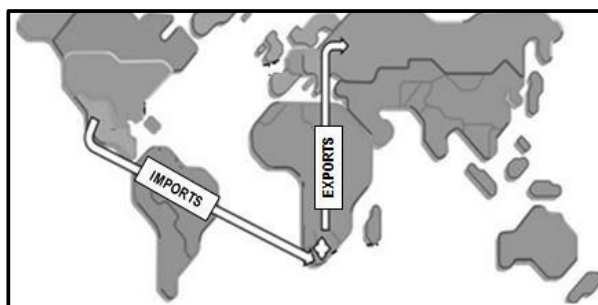
2.2.4 The contractual arrangement between countries relating to their trade relationship is known as a ...

- A trade agreement.
- B balance of payment.
- C trade strategy.
- D balance of trade.

2.2.5 Goods that are exchanged within a country is known as ... trade.

- A international
- B regional
- C domestic
- D provincial

2.2.6 The type of trade shown on the map is ... trade.



[Adapted from <https://www.freepik.com/colorful-world-map>]

- A national
- B regional
- C domestic
- D international

2.2.7 The economic disadvantage of importing goods:

- A Creation of local employment
- B Production suffers locally
- C Goods become cheaper
- D Growth of local industries

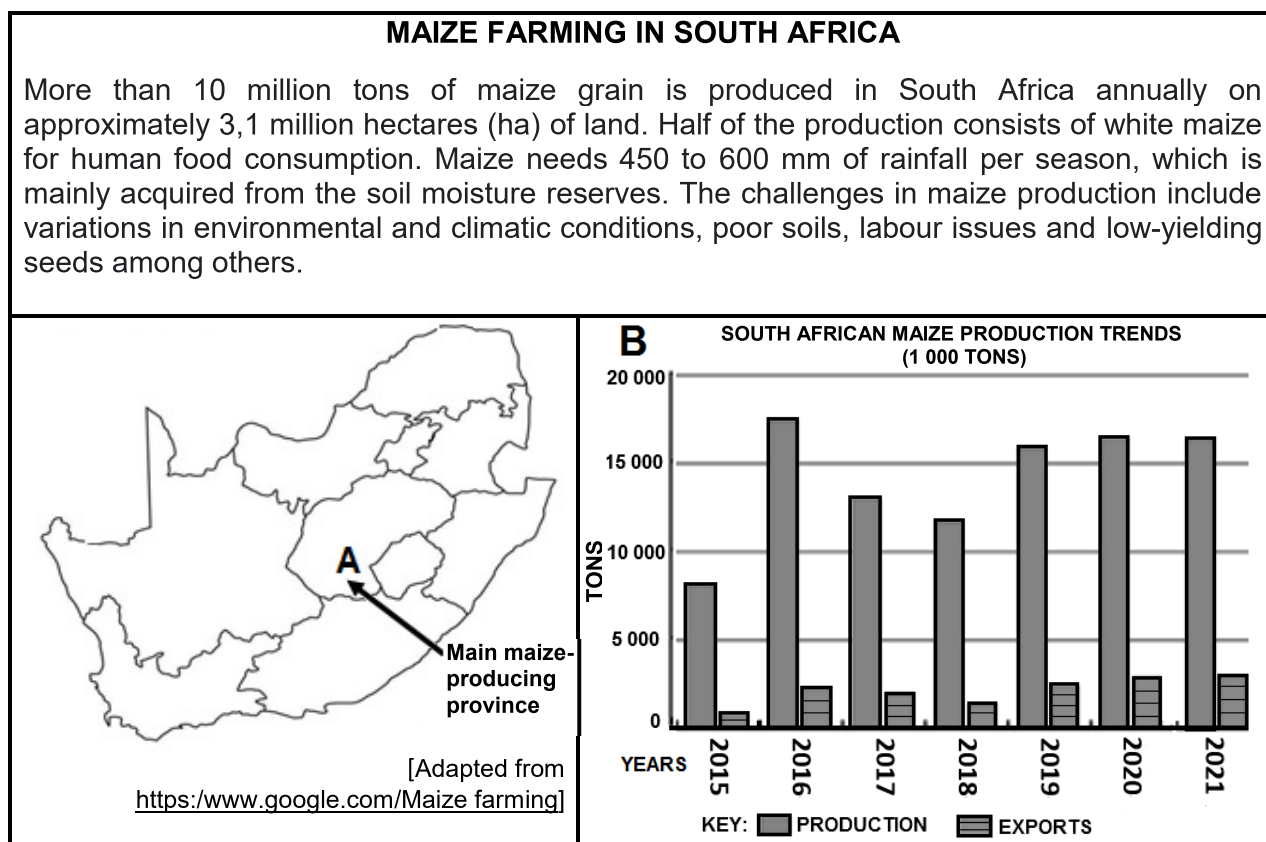
2.2.8 An advantage of South Africa having a favourable balance of trade:

- (i) Foreign capital decreases
- (ii) Jobs are created
- (iii) Retrenchment of workers
- (iv) Stimulates economic growth

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

(8 x 1) (8)

2.3 Refer to the infographic on maize farming in South Africa below.



2.3.1 Name the main maize-producing province (**A**) in South Africa.

(1 x 1) (1)

2.3.2 Refer to the graph. Compare the amount of maize produced to the amount that is exported.

(1 x 2) (2)

2.3.3 Why does South Africa have a large domestic (local) market for maize?

(2 x 2) (4)

2.3.4 How will climatic factors reduce maize production?

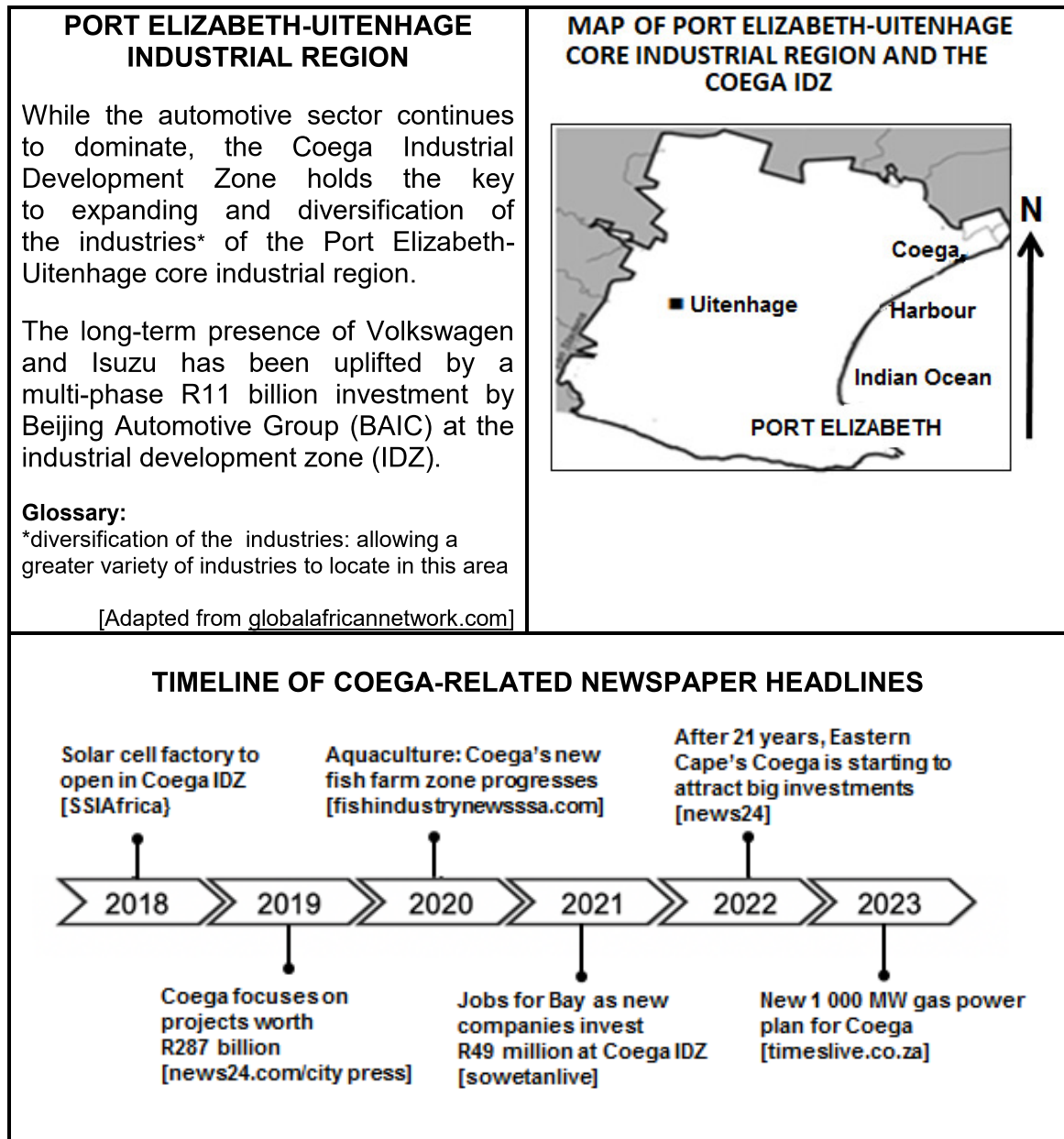
(2 x 2) (4)

2.3.5 Explain the economic importance of maize production to the South African economy.

(2 x 2) (4)



- 2.4 Refer to the infographic on the Port Elizabeth-Uitenhage core industrial region and the Coega Industrial Development Zone (IDZ) below.

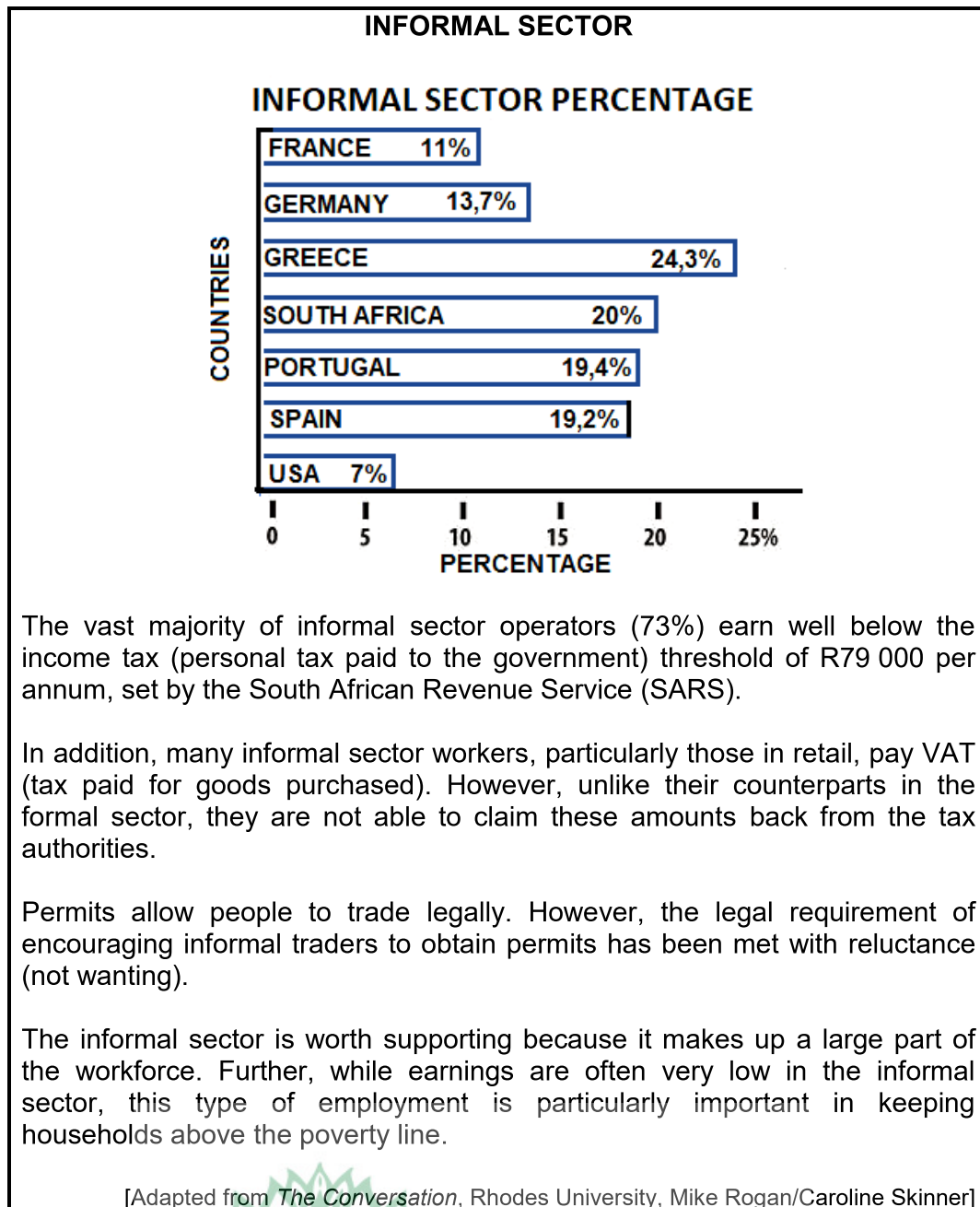


[Adapted from <https://www.google.com/search?q=images+Port+Elizabeth>]

- 2.4.1 Name the type of transport infrastructure indicated on the map, which favours the location of the Port Elizabeth-Uitenhage core industrial region. (1 x 1) (1)
- 2.4.2 The (primary/secondary) sector dominates the economy of the Port Elizabeth-Uitenhage core industrial region. (1 x 1) (1)
- 2.4.3 Name ONE major company in the extract that has invested in the Port Elizabeth-Uitenhage core industrial region. (1 x 1) (1)

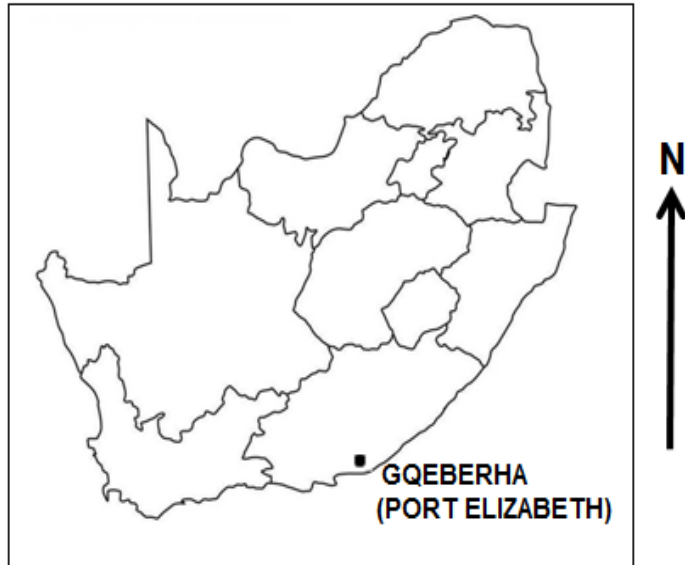


- 2.4.4 Quote TWO headlines from the timeline of the Coega-related newspaper headlines to show that diversification of industries is taking place. (2 x 1) (2)
- 2.4.5 How would this diversification of industries benefit the labour force in the Port Elizabeth-Uitenhage core industrial region? (2 x 2) (4)
- 2.4.6 Explain why the Coega Industrial Development Zone would be an attractive location for investment by overseas companies. (3 x 2) (6)
- 2.5 Refer to the extract and graph on the informal sector below.



- 2.5.1 According to the graph, what percentage of South Africa's population is classified as the informal sector? (1 x 1) (1)
- 2.5.2 Give economic reasons that have led to such a large informal sector in South Africa. (2 x 1) (2)
- 2.5.3 Explain the economic importance of the informal sector. (2 x 2) (4)
- 2.5.4 In a paragraph of approximately EIGHT lines, suggest strategies that could be implemented to improve the informal sector. (4 x 2) (8)
- [60]**

TOTAL SECTION A: 120

SECTION B**QUESTION 3: GEOGRAPHICAL SKILLS AND TECHNIQUES****GENERAL INFORMATION ON GQEBERHA (PORT ELIZABETH)**

Coordinates: 33°57'S; 25°36'E

Gqeberha (Port Elizabeth) is a major seaport (harbour) and a densely populated city in the Eastern Cape in South Africa. It lies at Algoa Bay in the Indian Ocean.

The residential area is on flat land, with an industrial sector at North End. Gqeberha is characterised by a large number of green belts.

The Coega Industrial Development Zone is located close to Gqeberha. It has a world-class infrastructure which provides for the increased accessibility of services and industries to the rest of the world.

[Source: [https://www.google.com/search?q=Port Elizabeth](https://www.google.com/search?q=Port+Elizabeth)]

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

ENGLISH

International airport
River
Bridge
Furrow
Golf course
Firebreak

AFRIKAANS

Internasionale lughawe
Rivier
Brug
Voor
Gholfbaan
Voorbrandstrook



3.1 **MAP SKILLS AND CALCULATIONS**

3.1.1 The scale of the orthophoto map:

- A 1 cm represents 100 m
- B 1 cm represents 100 cm
- C 1 m represents 500 m
- D 1 cm represents 500 m (1 x 1) (1)

3.1.2 The coordinates of the stadium at **F** in block **B4** on the topographical map is approximately ...

- A 33°56'19"S and 25°37'00"E.
- B 33°55'19"S and 25°35'00"E.
- C 33°56'19"S and 25°36'00"E.
- D 33°57'19"S and 25°34'00"E. (1 x 1) (1)

Refer to the orthophoto map.

3.1.3 Calculate the distance of the runway in metres (m) between **6** and **7** on the orthophoto map.Formula: **Actual distance = Map distance x Map scale** (2 x 1) (2)3.1.4 Why does the runway between **6** and **7** appear larger on the orthophoto map as compared to the topographical map? (1 x 1) (1)

3.1.5 Refer to the topographical map. Use the information below to calculate the magnetic declination for 2023.

Difference in years: 2023 – 2021 = 2 years (4 x 1) (4)

3.1.6 What is the purpose of calculating the magnetic declination (MD) for the current year? (1 x 1) (1)

3.2 **MAP INTERPRETATION**

Refer to the photographs (**Y** and **Z**) below of residential areas in Gqeberha (Port Elizabeth).



- 3.2.1 (a) Which photograph, **Y** or **Z**, matches the residential area **G** on the topographical map? (1 x 1) (1)
- (b) Give evidence from the topographical map to support your answer to QUESTION 3.2.1(a). (1 x 2) (2)

Gqeberha (Port Elizabeth) has a number of green belts.

- 3.2.2 (a) Give an example of ONE type of green belt on the topographical map. (1 x 1) (1)
- (b) How do green belts reduce environmental injustices in Gqeberha (Port Elizabeth)? (1 x 2) (2)

Gqeberha (Port Elizabeth) is characterised by light and heavy industries.

- 3.2.3 (a) Give evidence from the topographical map that North End, **H** in blocks **A4** and **B4**, is a heavy industrial area. (1 x 1) (1)
- (b) Identify the human-made feature that would limit the North End industrial area, **H**, from expanding towards the north. (1 x 1) (1)
- (c) How would employment opportunities created by industrial area **H** be of economic benefit to the local area? (1 x 2) (2)

Refer to the topographical map and the orthophoto map.

- 3.2.4 Why is the airport located in the rural-urban fringe of Gqeberha (Port Elizabeth)? (1 x 2) (2)

3.3 GEOGRAPHICAL INFORMATION SYSTEMS (GIS)

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

3.3.1 Give evidence that buffering is taking place in block **D2**. (1 x 1) (1)

3.3.2 What is the purpose of buffering in this block? (1 x 2) (2)

Refer to block **B1** on the topographical map.

3.3.3 What is a *data layer*? (1 x 2) (2)

3.3.4 Identify the transport data layer in block **B1**. (1 x 1) (1)

Refer to **I** in block **B1**.

3.3.5 Why would the transport data layer (answer to QUESTION 3.3.4) cause traffic congestion? (1 x 2) (2)

TOTAL SECTION B: 30
GRAND TOTAL: 150