



NATIONAL SENIOR CERTIFICATE EXAMINATION MAY 2023

GEOGRAPHY: PAPER I

MARKING GUIDELINES

Time: 3 hours

200 marks

These marking guidelines are prepared for use by examiners and sub-examiners, all of whom are required to attend a standardisation meeting to ensure that the guidelines are consistently interpreted and applied in the marking of candidates' scripts.

The IEB will not enter any discussions or correspondence about any marking guidelines. It is acknowledged that there may be different views about some matters of emphasis or detail in the guidelines. It is also recognised that, without the benefit of attendance at a standardisation meeting, there may be different interpretations of the application of the marking guidelines.

Marks must be awarded in line with:

- the specific content of the marking guidelines or the generic level descriptors for the question
- the specific skills defined in the marking guidelines or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

Marks must be awarded **POSITIVELY**:

- Marks are awarded for correct / valid answers.
- Credit is given for valid answers that go beyond the scope of the syllabus referring to your senior sub-examiner or examiner as appropriate.
- Marks are awarded when candidates clearly demonstrate what they know and can do.
- Marks are not deducted for errors.
- Marks are not deducted for omissions.
- Answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

Rules must be applied consistently, e.g., in situations where candidates have not followed instructions or in the application of generic level descriptors.

Marks should be awarded using the full range of marks defined in the marking guidelines for the question; however, the use of the full mark range may be limited according to the quality of the candidate's responses.

Marks awarded are based solely on the requirements as defined in the marking guidelines.

Marks should not be awarded with grade thresholds or grade descriptors in mind.

When marking higher-order questions please use the essay coding system to make the moderation process more consistent, fair and easier.

Geography Essay Coding

- E Excellent
- **G** Good
- F Fair
- V Vague
- **R** Repetitive
- I Irrelevant

SECTION A: INTEGRATED QUESTION: THE GEOGRAPHY OF THE NORTHERN CAPE **QUESTION 1** PHYSICAL GEOGRAPHY 1.1 **Climate True and False** State whether the following statements are TRUE or FALSE. Write only the number of the question and True or False, e.g. 1.1.6 False. The bottom of the valley is warmest early in the morning. False 1.1.1 1.1.2 Urban areas are warmer than the rural areas because of the building materials. True 1.1.3 Berg winds are a result of adiabatic heating. True Frost is formed in winter as a result of high pressure over the interior. True 1.1.4 The Cape Doctor is created by the ridging of the South Indian High-pressure 1.1.5 False system.

1.2	Subtropical Anticyclones and As	sociated Weather Conditior	IS
Study	Figure 1, a weather warning by the	South African Weather Servic	е.
1.2.1	Select a bold word between bracke word, e.g., (e) freeze	ets that would make the state	ment correct. Write only the question number and the selected
(a)	The Northern Cape receives (summer / winter) rainfall.	summer	
(b)	The Northern Cape is to the (west / east / south) of the 500 mm isohyet.	west	
(c)	The (interior anticyclone / low- pressure trough / tropical low) is responsible for the formation of the thunderstorm in Figure 1.	low-pressure trough	
(d)	Thunderstorms form over the Northern Cape because of (frontal / orographic / convectional) rainfall.	convectional	

1.2.2	Describe how line thunderstorms form over South Africa.	Air moves from both HP. Dry air from the west SAA and warm moist from the east SIA. Low-pressure troughs draw air together, forming a moisture front. Air rises to the east of the MF, forming thunderstorms.	 THIS IS A CONCEPT QUESTION Candidates need to show an understanding of line thunderstorms. Give credit for reasonable and relevant alternatives. 1 mark – The response is mainly descriptive with little assessment of how thunderstorms are formed. Knowledge is primary, and understanding may be inaccurate. 2 marks – Response offers some assessment with superficial details of the formation of thunderstorms. Response develops on a largely secure base of knowledge and understanding. 3 to 4 marks – The response clearly explains how thunderstorms are formed. There is detailed knowledge and a solid conceptual understanding of the topic.
1.2.3	Explain why thunderstorms are important to the interior of South Africa.	They bring most of the water we need in the interior. The water is used for agriculture and for drinking. We store the water in dams.	 THIS IS A CONCEPT QUESTION Candidates need to show an understanding of the importance of thunderstorms. Give credit for reasonable and relevant alternatives. 1 mark – Response offers some explanation with superficial details of the importance of thunderstorms. Knowledge is primary, and understanding may be inaccurate. 2 marks – The response clearly explains the importance of thunderstorms. There is detailed knowledge and a solid conceptual understanding of the topic.

		on Figure 3.	rest of the country, and Figure 3, a synoptic chart
(a) (b)	Name the anticyclones A and B. Name the weather feature	A – South Atlantic B – South Indian C – Cold front, MLC	
1.3.2	at C. Choose the definition of a cut-off low (write only the letter) Outline TWO effects of cut-	 A A low-pressure system that has become displaced from the westerly wind belt and moves independently. It will bring heavy rain or snow 	
1.0.0	off lows.	 It will bring heavy fail of show Heavy thunderstorms Strong winds. 	alternative. 1 mark per concept – can be a list.
1.3.4	Discuss the roles that anticyclones play in the formation of a cut-off low.	 The SAHP ridges towards RSA and the SIHP moves closer to the coast. LP is unable to move along with the westerlies. LP first becomes static and then starts to move from west to east. 	 THIS IS A CONCEPT QUESTION Candidates need to show an understanding of the formation of a cut-off low. MUST link to the anticyclones. Give credit for reasonable and relevant alternatives. 1 mark – The response is mainly descriptive with little assessment of how cut-off lows are formed. Knowledge is primary, and understanding may be inaccurate. 2 marks – Response offers some assessment with superficial details of the formation of cut-off lows. Response develops on a largely secure base of knowledge and understanding. 3 to 4 marks – The response clearly explains how cut-off lows are formed. There is detailed knowledge and a solid conceptual understanding of the topic.

1.4	Drainage Systems in South A	frica	
Study 1.4.1	Figure 4, a map of the Orange I Match the letters D , E and F ir choice, e.g., (d) C.	River basin. Figure 4 to the following elements. Write only	the question number and the letter of your
(a) (b)	Watershed Confluence	D E	
(C)	Tributary	F	
1.4.2	Explain why the Orange River is considered an exotic river.	It is a river that starts in an area of high rainfall, receiving baseflow and then flowing through a dry area, receiving no base flow but having water in the channel.	 THIS IS A CONCEPT QUESTION Candidates need to show an understanding of an exotic river. Give credit for reasonable and relevant alternatives. 1 mark – Response offers some superficial understanding of an exotic river. Knowledge is primary, and understanding may be inaccurate. 2 marks – The response clearly shows an understanding of an exotic river. There is detailed knowledge and a solid conceptual understanding of the topic.
1.4.3	Name TWO neighbouring countries that fall within the Orange River drainage basin.	LesothoBotswanaNamibia	ANY TWO
1.4.4	Analyse the role of dams such as the Vaal Dam and the Gariep Dam in drainage basin management.	 Water supply – drinking Irrigation Flood control Debris control Navigation 	 Concepts need to be unpacked; this has to do with water management. Give credit for reasonable and relevant alternatives. 1 mark – The response is mainly descriptive with little analysis of the role of dams. Knowledge is primary, and understanding may be inaccurate. 2 marks – Response offers some analysis with superficial details of the roles of dams.

	 Response develops on a largely secure base of knowledge and understanding. 3 to 4 marks – The response clearly analyses the role of dams. There is detailed knowledge and a solid conceptual understanding of the topic.
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1.5	Catchment and River management			
Study	Photograph 1 of a man-made	cana	l along the Orange River in the Northern Cape	Э.
1.5.1	What is the purpose of the canal as shown in Photograph 1?		Canals are used to transport water for irrigation and other human uses.	 Give credit for reasonable and relevant alternatives.
1.5.2	Analyse ONE effect that canals along the Orange River could have on the discharge of the river.		 They could reduce the discharge of the river because of the fact that they draw water away. Cause a decrease in the discharge velocity. In times of flooding, they could decrease the flood peak. Increase the lag time. 	 Give credit for reasonable and relevant alternatives.
1.5.3	Discuss the benefit of canals to the agricultural industry.		 Non-irrigated wastelands can be developed by canal irrigation, which would increase the quantity of biomass in the area. Economic development can be expedited by avoiding dangerous droughts. Dependence on rainfall can be minimised through canal development. Canals are fed by rainwater received by rivers, and the water is used for irrigation. Production of crops needing more water is also possible through canals. Compared to non-irrigated soils, 	 Give credit for a reasonable and relevant alternative discussion. 1 mark per benefit – when the response has a superficial discussion and shows general knowledge and understanding. 2 marks per benefit – for a developed discussion that covers the content thoroughly. Max 2 marks only ONE way is covered.

 higher productivity per hectare is also possible due to canals. Canal system is a permanent structure hence only maintenance is required for getting its benefits for a long time. Canals are multi-purpose where, apart from irrigation, hydroelectricity generation, navigation, drinking water supply and fishery development are 	
also made possible.	
Groundwater level does not go down on account of cancel irrigation	

account of canal irrigation.
Canals are also becoming tourist attractions these days.

1.6	Fluvial Processes		
Study 1.6.1		Falls to the west of Upington, as well as Figure brackets that would make the statement correct	4 on page 5, the map of the Orange River basin. Write only the question number and the
	selected word, e.g., (d) rock.		
(a)	A waterfall is known as a (temporary / permanent / knick) base level of erosion.	temporary	
(b)	A waterfall will result in (headward erosion / lateral erosion / deposition) along the river channel.	headward erosion	
(c)	A waterfall is an example of (rejuvenation / grading / a profile)	rejuvenation	
1.6.2	Explain how a waterfall is formed along a river system.	 Often, waterfalls form as streams flow from hard rock to soft rock. This happens both laterally (as a stream flows across the earth) and vertically (as the stream drops in a waterfall). In both cases, the soft rock erodes, leaving a hard ledge over which the stream falls. 	 THIS IS A CONCEPT QUESTION Candidates need to show an understanding of how a waterfall is formed. Give credit for reasonable and relevant alternatives. 1 mark – Response offers some superficial understanding of the formation of a waterfall. Knowledge is primary, and understanding may be inaccurate. 2 marks – Response offers some explanation with superficial details of the formation of a waterfall. Response develops on a largely secure base of knowledge and understanding. 3 – 4 marks – The response clearly explains how a waterfall is formed. There is detailed knowledge and a solid conceptual understanding of the topic.

QUES	QUESTION 2 HUMAN GEOGRAPHY			
2.1	Study of Settlements			
Study	Figure 5, a map of the Hotazel r	egion in the Northern Cape.		
2.1.1	Name TWO street patterns in the settlement of Hotazel that are visible on the map.	Grid iron/ grid Planned irregular Radial		
2.1.2	Match a word in Column B to th metro	e statement in Column A. Write only the question number and the word of your choice, e.g., (d) –		
(a)	Main economic activity in the region	Mining		
(b)	Settlement classification	Town		
(C)	Type of urban settlement	Mining town		

2.2	Structure of the Economy	
		ge of South Africa. Select the correct answer in each instance. Write the number of the question
and th	e letter corresponding to your	
2.2.1	Mining close to the surface,	C opencast
	such as near Hotazel, is	
	known as mining.	
	A deep-level	
	B subsistence	
	C opencast	
	D zama zama	
2.2.2	Mining is in the	A primary
	economic sector.	
	A primary	
	B secondary	
	C tertiary	
	D quaternary	
2.2.3	refers to the difference	B Balance of trade
	in value between imports	
	and exports.	
	A Trade agreement	
	B Balance of trade	
	C Local trade	
	D International trade	

break-of-bulk

Α

2.2.4

А

В

С

D

A settlement where the

harbour.

junction.

mode of transport for goods changes is known as a ...

break-of-bulk.

central place.

2.3	Mining				
Study	Study Figure 6, an infographic about manganese in the Northern Cape.				
2.3.1	Name the main port from which manganese is exported.	Gqeberha, Coega			
2.3.2	Name TWO uses of manganese.	 clear glass, to desulphurise and deoxidise steel in steel production reduce the octane rating in gasoline black-brown pigment in paint as filler in dry-cell batteries alloys help stiffen the aluminium in soft-drink cans a catalyst a rubber additive decolourise glass that is coloured green by iron impurities minting of coins ceramic colouring 	Give credit for a reasonable and relevant alternative. 1 mark per concept – can be a list.		
2.3.3	Name one forward linkage and one backward linkage of manganese mining.	 Forward Steel production Glass production Aluminium production Backward Mining equipment 	Give credit for a reasonable and relevant alternative. 1 mark per concept – can be a list.		
2.3.4	How does the location of the manganese mines in the Northern Cape increase the export costs?	The Northern Cape is isolated and very sparse, with few major core areas. The infrastructure is specifically built to accommodate the resource, added to the cost of production.	 Candidates need to show an understanding of the effect of location on economic development. Give credit for reasonable and relevant alternatives. 1 mark – Response offers some superficial understanding of how the location affects mining in NC. Knowledge is primary, and understanding may be inaccurate. 		

			• 2 marks – The response clearly shows an understanding of how the location will affect mining in NC. There is detailed knowledge and a solid conceptual understanding of the topic.
2.3.5	Discuss the importance of mining to the economy of the Northern Cape.	 Few core urban areas People need jobs Building infrastructure Allows for development of skills 	 THIS IS A CONCEPT QUESTION Candidates need to show an understanding of the importance of mining to the NC economy. Give credit for reasonable and relevant alternatives. 1 mark – Response offers some superficial understanding of the importance of mining to the NC economy. Knowledge is primary, and understanding may be inaccurate. 2 marks – Response offers some discussion with some details of an understanding of the importance of mining to the NC economy. Response develops on a largely secure base of knowledge and understanding. 3–4 marks – The response clearly discusses the importance of mining to the NC economy. There is detailed knowledge and a solid conceptual understanding of the topic.
2.3.6	Discuss TWO factors that limit mining in the Northern Cape.	 Lack of water No large labour force Arid region Very unskilled labour Little attraction for work and movement of families 	 Give credit for a reasonable and relevant alternative discussion. 1 mark per factor- when the response has a superficial discussion and shows general knowledge and understanding. 2 marks per factor - for a developed discussion that covers the content thoroughly. Max 2 marks only ONE factor is covered.

2.3.7	Predict how SMMEs can be used to arrest social justice issues.	•	Develop entrepreneurial spirit Help new entrance into the market Creating more jobs and opportunities. Employing local workers Contributing to local government with taxes Open to other genders Open to anyone that might have been disadvantaged in the past.	 THIS IS A CONCEPT QUESTION Candidates need to show an understanding of the role of SMMEs in helping the social justice issues in South Africa. Give credit for reasonable and relevant alternatives. 1-2 marks – The response is mainly descriptive with little assessment of the roles of SMME in social justice. Knowledge is primary, and understanding may be inaccurate. If just a list is given with no unpacking (MAX 2 marks) 3-4 marks – Response offers some assessment with superficial details on the roles of SMME in social justice. Response develops on a largely secure base of knowledge and understanding. Examples may lack detail or development. 5 to 6 marks – The response clearly explains the roles of SMME in social justice. There is detailed knowledge and a solid conceptual understanding of the topic. Any examples used are appropriate and integrated effectively into the response.
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QUESTION 3 EXTER	IDED WRITING
struggling with rural depopu Use Photograph 3, Figure	GEOGRAPHY ESSAY CODES CONTENT: Underline relevant points if correct G-Good V-Vague R-Repetition I - Irrelevant F-Fair Underline relevant points if correct With Provide the State of Correct points EVIDENCE: () Bracket evidence Image: State of Correct points Down of Bitterfontein, a junction town between Springbok and Cape Town along the N7. It is a typical town illation. Study figures 7 and 8. 7 and Figure 8 on page 11 and any other sources from Questions 1 and 2. Write a report for the Northern s the impact of rural-urban migration on the province. Use any additional information to help you discuss the
 Cape government to discus following subheadings: Outline the factors that cause rural–urban migration. 	 a the impact of rural-urban migration on the province. Use any additional information to help you discuss the A description of any push or pull factor. Push factors: Lack of services Low employment Lack of safety High crime Crop failure Drought Flooding Poverty War Pull factors Better services Higher employment Safe society Less crime Fertile land

	 Lower risk of natural hazards Good climate More wealth Political stability 	
 Assess the negative economic impact of rural–urban migration on rural areas. 	 Businesses close down Services underutilised Infrastructure becomes run down Aged population No natural increase in population More unemployment 	 Give credit for a reasonable and relevant alternative. Watch out for repetition in paragraphs. Credit each fact only once.
• Predict the difficulties rural migrants experience in urban areas and the impact on their quality of life.	 No jobs No income Poor housing No access to the services they need No space to live Crime – victims Infrastructure is not adequate for the people 	 Give credit for a reasonable and relevant alternative. Watch out for repetition in paragraphs. Credit each fact only once.

Criteria	Level 3 Excellent – Good	Level 2 Satisfactory	Level 1 Poor
 Writing skills Take into consideration structure and presentation. Use of brief introduction and conclusion. Logical discussion and use of subheadings. 	Suitable introduction and conclusion. Sophisticated, coherent and structured writing. Subheadings and paragraphs effectively used. The report is concise, well-structured and succinct.	Introduction and conclusion present, although not ideal. Attempts to adhere to subheadings and use of paragraphs. Report deviates from the point in places and lacks brevity.	Writing is weak and almost unintelligible. No introduction or conclusion provided. No use of/ adherence to subheadings. Long sentences, poor grammar and ineffective use of paragraphs. The report is repetitive. Bullet points may have been used. 1 = must be awarded for any form of written attempt / effort
[4 marks allocated to this component]	4 marks	3 marks	2–0 marks
 Content knowledge Correct use of geographical terminology and concepts. Adherence to topic and subheadings. 	Response thoroughly assesses the relevant content and detailed discussion of the topic. An effective and sustained evaluation with a sound conclusion. Response is well founded in detailed exemplar knowledge and strong conceptual understanding of the topic. Examples used are appropriate and integrated effectively into the response. Good use of geographical terminology and concepts. An appropriate number of facts presented per subheading. <u>Min</u> of 2 points for every sub-heading will earn candidate 10 marks. Extension work will provide a further 2 marks.	Response demonstrates some knowledge and understanding. Some relevant content. Response is broadly evaluative in character, comprising some explanatory or narrative content and a conclusion. Response develops from secure base of knowledge and understanding with the use of examples. An overview / general discussion of key issues. Displays a fair understanding of the topic, however, inaccurate or vague in some of their discussions. Basic use of geographical concepts and terminology. 60–50% of required facts presented per subheading. 1 point per sub-heading, or 2 points provided and only 2 paragraphs.	Response makes a few general points about the topic. A descriptive response comprising a few simple points. Knowledge is basic and understanding may be poor and lack relevance to the Question set. Digression from the topic. Weak grasp of concepts and terminology. Isolated and generic elements of understanding and knowledge. Superficial / poor discussion. Almost no relevant facts / subheading.
[12 marks allocated to this component]	12–9 marks	8–5 marks	4–0 marks
 Supporting evidence – analysis and understanding The ability to analyse and evaluate the topic is assessed in this category. Reference made to case study material / fact file / source material provided. If appropriate, reference must be made to familiar / local or other examples. 	The candidate is able to argue and evaluate appropriately. There is strong evidence of accurate application of understanding and evidence provided. The report demonstrates the understanding and integration of relevant case study / fact file / source material into the context of the report. Looking for evidence of unpacking content and high-order integration.	Superficial links made to case study / fact file / source material. Although reference to supporting examples has been made, it is not clear that the candidate has a good understanding of the example / case study material. Supporting evidence does not always relate appropriately to the subheading or context of the discussion. Discussion lacks depth.	Limited to no reference made to case study / fact file / source material. Examples not provided. Has little to no geographical meaning. Little analysis or understanding. Demonstrates minimal understanding of the topic.
[4 marks allocated to this component]	4 marks	3 marks	2–0 marks

SECT	SECTION B – CLIMATE, WEATHER AND GEOMORPHOLOGY				
QUES	TION 4 CLIMATE				
4.1	Mid-latitude Cyclone				
Study 4.1.1	Figure 9, a synoptic chart proc Identify whether Figure 9 represents typical summer or winter conditions.	luced by AfricaWeather. Winter			
4.1.2	Give ONE piece of evidence for your answer to Question 4.1.1	 High pressure over the interior A cold front approaching the country 	Give credit for a reasonable and relevant alternative. 1 mark per concept – can be a list.		
4.1.3	Provide names for the following:		Give credit for a reasonable and relevant alternative. 1 mark per concept – can be a list.		
	(a) Anticyclone labelled G	South Atlantic high pressure/ anticyclone			
	(b) Low-pressure system labelled I	Mid-latitude cyclone			
4.1.4	(c) Front labelled J Draw a cross-section from L to K.	Warm front	 Clouds – 1 mark Movement of the air –1 mark Cold and warm air – 1 mark Shape of front – 1 mark Drawing – 1 mark 		

4.1.5	How and why do the weather conditions for Cape Town change as the cold front M passes over the city.	 Why Movement of the cold front over the Cape How Wind direction changes. Winds become gusty. There is a sudden drop in temperature. Heavy rain, sometimes with hail, thunder, and lightning. 	 THIS IS A CONCEPT QUESTION Candidates need to show an understanding of how weather conditions change as a cold front passes. Candidate must have both why and how to get full marks. Give credit for reasonable and relevant alternatives. 1 mark per response is mainly descriptive with little assessment of how weather conditions change as a cold front passes. Knowledge is primary, and understanding may be inaccurate. 2 marks per response offers some assessment with superficial details on how weather conditions change as a cold front passes. Response develops on a largely secure base of knowledge and
			secure base of knowledge and understanding.

4.2	Tropical Cyclone		
	al cyclone Batsirai was one of s Madagascar.	the most significant Indian Ocean storms in 202	22. Study Figure 10 showing the path of the storm
4.2.1	Describe the movement of tropical cyclone Batsirai.	 Moving in a westerly direction, then recurving south Moves west over Madagascar, then south over the channel 	Give credit for a reasonable and relevant alternative.
4.2.2	Describe TWO impacts that Batsirai would have had when it made landfall over Madagascar.	 Heavy rain Strong wind Large storm surges near landfall Tornadoes 	 Give credit for a reasonable and relevant alternative description. 1 mark per concept – when the response has a superficial description and shows general knowledge and understanding. 2 marks per concept – for a developed description that covers the content thoroughly. Max 2 marks only ONE way is covered
4.2.3	Name THREE requirements for the formation of a tropical cyclone.	 Warm ocean Deep low pressure Low wind shear Coriolis force 	Give credit for a reasonable and relevant alternative. 1 mark per concept – can be a list.
4.2.4	Give TWO reasons why Batsirai weakened as it moved west.	Moved over cooler waterMoved over land (Madagascar)	Give credit for a reasonable and relevant alternative.

QUESTION 5 GEOMORPHOLOGY					
5.1	5.1 Fluvial Terminology				
Match A.	the term in Column B with the description in Column	n A. Write	only the question num	ber and the letter of your choice, e.g., 1.1.0	
5.1.1					
5.1.2	Relating to the banks of a stream	E.	Riparian zone		
5.1.3	Scraping or grinding away a surface by friction ensues from the collision between particles during their transport.	В.	Abrasion		
5.1.4	The line that extends down a channel that follows the lowest elevation of the bed.	F.	Thalweg		

5.2	Fluvial Processes			
Figure		wing the Buffalo River in the northern Cape region.		
	Select a bold word between brackets that would make the statement correct. Write only the question number and the selected word, e.g., 5.2.0 freeze.			
5.2.1	The steam channel pattern is (braided / meandering / rock controlled).	braided		
5.2.2	The main reason for this pattern is (less gradient/ rejuvenation / flooding).	less gradient		
5.2.3	The main cause of this pattern is (erosion / deposition / transportation).	deposition		
5.2.4	This pattern forms (distributaries / oxbow lakes / potholes).	distributaries		

5.3	Drainage Systems in South	Africa				
Study	y Figure 12, a map of the Crocodile River basin.					
5.3.1	Determine the stream order of the Crocodile River.	3rd				
5.3.2	Assess whether the Crocodile River is graded or ungraded.	Ungraded (1) This is because it has several knickpoints along the course of the river, i.e., the dams. (2)	 Candidates need to know what a graded or ungraded river is. Give credit for reasonable and relevant alternatives. 1 mark – Response offers some superficial understanding of an ungraded or graded river. Knowledge is primary, and understanding may be inaccurate. 2 marks – The response clearly shows an understanding of an ungraded and graded river. There is detailed knowledge and a solid conceptual understanding of the topic. 			
5.3.3	As the river passes through the drainage pattern.	he Hartbeespoort Dam and Magaliesberg Mounta	ains at N , it is regarded as having a <i>superimposed</i>			
	Explain how a superimposed drainage pattern is formed. Refer to the Crocodile River in your explanation.	A drainage pattern that has been established on an earlier surface (perhaps conformable with the immediately underlying strata and standing well above the present landscape). Subsequently, the pattern was lowered by river incision so that it now lies across geologic structures to which it bears no relation. <u>Must use the Crocodile River in their</u> <u>answer</u>	 THIS IS A CONCEPT QUESTION Candidates need to show an understanding of how a superimposed drainage pattern is formed. Give credit for reasonable and relevant alternatives. 1 mark – The response is mainly descriptive with little assessment of how a superimposed drainage pattern is formed. Knowledge is primary, and understanding may be inaccurate. 2 marks – Response offers some assessment with superficial details on how a superimposed drainage pattern is formed. Response develops on a largely secure base of knowledge and understanding. 			

			 Superficially uses the Crocodile River to explain. 3 – 4 marks – The response clearly explains how a superimposed drainage pattern is formed. There is detailed knowledge and a solid conceptual understanding of the topic. Uses the Crocodile River to explain
5.3.4	Analyse TWO effects a dam has on a river system.	 Disorientates migrating fish Destroys natural seasonal flow variations Can trap sediment Buries rock riverbeds where fish spawn. Gravel, logs, and other essential food and habitat features can also become trapped behind dams. Dams that divert water for power and other uses also remove water needed for healthy in-stream ecosystems. This can leave stretches below dams completely de-watered. Slow-moving or still reservoirs can hea up, resulting in abnormal temperature fluctuations algal blooms and decreased oxygen levels. 	 Give credit for a reasonable and relevant alternative analysis. 1 mark per effect – when the response has a superficial analysis and shows general knowledge and understanding. 2 marks per effect – for a developed analysis that covers the content thoroughly. Max 2 marks only ONE effect is covered

5.3.5	Evaluate how urbanisation along a river system affects a storm hydrograph.	It will increase the flood peak and decrease the lag time. This is due to the types of materials used in a city, causing more surface runoff.	 THIS IS A CONCEPT QUESTION Candidates need to show an understanding of how urbanisation affects a hydrograph and river discharge. Give credit for reasonable and relevant alternatives. 1 mark – The response is mainly descriptive with little assessment of how urbanisation affects a hydrograph and river discharge. Knowledge is primary, and understanding may be inaccurate. 2 marks – Response offers some assessment with superficial details on how urbanisation affects a hydrograph and river discharge. Response develops on a largely secure base of knowledge and understanding. 3 – 4 marks – The response clearly explains how urbanisation affects a hydrograph and river discharge. There is detailed knowledge and a solid conceptual
			understanding of the topic.

QUES	QUESTION 6 SETTLEMENT				
6.1	Rural Settlement				
Study 6.1.1	Study the topographical map extract (Figure 13) of a region in the southwestern Cape. 6.1.1 Match the correct word(s) or letter from Column B to the statement in Column A. Write only the question number and the word(s) or letter of your choice, e.g., (h) site.				
(a)	Settlement O is classified as a/an	isolated farmstead			
(b)	Settlement P is classified as a/an	village			
(c)	Settlement has the higher-order services.	Р			
(d)	Settlement has the largest range.	Р			
(e)	The shape of settlement Q is described as	linear			
(f)	Settlement O is a settlement.	wet-point			
(g)	Settlement O practices farming.	commercial			
6.1.2	Describe TWO situation factors for settlement O .	 In the flood plain for water Main road around to transport goods Northern side of the valley Close to town to sell produce 	 Give credit for a reasonable and relevant alternative description. 1 mark per factor – when the response has a superficial description and shows general knowledge and understanding. 2 marks per factor – for a developed description that covers the content thoroughly. Max 2 marks only ONE factor is covered 		

6.2	Urban Hierarchies			
Study	Study Figure 14, an infographic showing the 20 largest cities by population.			
6.2.1	Name the biggest city in Africa.	Cairo		
6.2.2	State TWO reasons why cities around the world are growing rapidly.	 Increasing birth rates and decreasing death rates Improved health care Longer life expectancies Greater employment opportunities Better-paid jobs in the cities, An expected higher standard of living, More reliable food supply Better medical conditions 	sonable and relevant – can be a list.	
6.2.3	Discuss TWO consequences of such urban growth.	 Leads to greater poverty. Local governments unable to provide services. Concentrated energy-use leads to greater air pollution. Significant impact on human health. Automobile exhaust produces elevated lead levels in urban air. Large volumes of uncollected waste Give credit for a rea alternative discussion 1 mark per con response has a shows general k understanding. 2 marks per con developed discussion 	sequence – when the superficial discussion and nowledge and nsequence – for a ussion that covers the	

6.3	Urban Structure and Pattern	5			
Study	tudy Photograph 4, a view of the skyline of the Johannesburg CBD.				
6.3.1	Explain why taller buildings are found in the CBD. The Johannesburg CBD has been going through a period of gentrification. Elaborate on the effects that urban renewal has on an urban area.	This is because the land is more expensive, so better to build up.Candidates must show an understanding of bid rent curve.• Unsustainable increases in property prices• Higher lifestyle costsTHIS IS A CONCEPT QUESTION Candidates need to show an understanding of the effect of gentrification and urban renewal. Give credit for reasonable and relevant alternatives.• Ignore social exclusion, gentrification and displacement of long- term residents of lower socio-economic (SES) levels.TH2 marks – The response is mainly descriptive with little assessment of the effect of gentrification and urban renewal. Knowledge is primary, and understanding may be inaccurate.• If just a list is given with no unpacking (MAX 2 marks)• 3–4 marks – Response offers some assessment with superficial details on the effect of gentrification and urban renewal. Response develops on a largely secure base of knowledge and understanding. Examples may lack detail or development.• 5–6 marks – The response clearly explains the effect of gentrification and urban 			

QUESTION 7 ECONOMY OF SOUTH AFRICA			
7.1 Agriculture			
Study Photograph 5 of a typical far	n in the Western Cape.		
Choose FOUR of the following statements to describe the type of farming shown in this photograph. Write only the letters of the statements you choose. E.g., H, I, J and K.	C Capital-intensive and uses advanced technology D Associated with monoculture F Products for the home and export market G Associated with extensive farming practices		
 A Produces a low yield per hectare. B Focuses on food security in local communities. C Capital-intensive and uses advanced technology. D Associated with monoculture. E Small-scale farming. F Products for the home and export market. G Associated with extensive farming 			

7.2	7.2 Strategies for Industrial Development				
	Read the following Fact File about the Fish River SDI, study Figure 15, a Fish River SDI location map, and Figure 16, an infographic about the Fish River SDI, and answer the questions on page 24.				
7.2.1	Explain what an IDZ is. (Do not simply expand the abbreviation.)	An Industrial Development Zone (IDZ) is a purpose-built industrial estate linked to an international seaport or airport and that is capable of leveraging fixed direct investments in value-added and export- orientated manufacturing industries.			
7.2.2	Discuss TWO benefits of an IDZ to a region like the Eastern Cape.	 Creates jobs Drives infrastructure development Generates foreign income More linked industries Give credit for a reasonable and relevant alternative discussion. 1 mark per benefit – when the response has a superficial discussion and shows general knowledge and understanding. 2 marks per benefit – for a developed discussion that covers the content thoroughly. Max 2 marks only ONE benefit is covered 			
7.2.3	Evaluate the importance of a port or harbour to an IDZ.	 The main focus is export, so the IDZ needs a port or an airport. Ports and airports are used to export and import goods. IDZ's primary focus is on technology or more export and foreign investment industries. Infrastructure is geared towards linking the port and the IDZ. Jobs and skills are developed to cater for the link. Candidates need to show an understanding of the link between a port and an IDZ. Knowledge is primary, and understanding may be inaccurate. 2 marks – Response offers some assessment with superficial details on the link between a port and an IDZ. Response develops on a largely secure base of knowledge and understanding. 3 – 4 marks – The response clearly evaluates the link between a port and an IDZ. There is detailed knowledge and a solid conceptual understanding of the topic. 			

7.2.4	Assess how tourism could aid in the development of the Fish River SDI.	•	Tourism in South Africa is a strategic sector and potentially one of the driving forces of the economy in the 21st century Links to new tourism Ecotourism Provides vital skills Develops linked industries	 Candidates need to show an understanding of the link between an SDI and tourism and how it can aid development. Give credit for reasonable and relevant alternatives. 1 mark – The response is mainly descriptive with little assessment of the link between an SDI and tourism and how it can aid development. Knowledge is primary, and understanding may be inaccurate. 2 marks – Response offers some assessment with superficial details on the link between an SDI and tourism and how it can aid development. Response develops on a largely secure base of knowledge and understanding. 3 – 4 marks – The response clearly explains the link between an SDI and tourism and how it can aid development. There is detailed knowledge and a solid conceptual understanding of the topic.
7.2.5	Discuss TWO hindrances to manufacturing the Gqeberha region.	•	No raw materials from mining. Higher electricity prices. No power supply (load-shedding) Lack of water – drought in the region. Labour strikes e.g., Gqberha–Uitenhage relies heavily on the motor vehicle industry. Strikes in these industries has a major negative impact. Some motor vehicle companies have moved to other areas.	 Give credit for a reasonable and relevant alternative discussion. 1 mark per hindrance – when the response has a superficial discussion and shows general knowledge and understanding. 2 marks per hindrance – for a developed discussion that covers the content thoroughly. Max 2 marks only ONE hindrance is covered

		 Factors like overconcentration of industries and pollution may not be as bad as in the PWV region. As more development occurs, the negative impact of these factors increases. Far from the main consumer areas 	
7.2.6	Name TWO things that promote manufacturing in the Gqeberha region.	• Examples: cheaper costs for importing e.g., car parts,	Give credit for a reasonable and relevant alternative. • 1 mark per concept – can be a list.
7.2.7	Name TWO items manufactured in Gqeberha.	 Motor vehicles e.g., car assembly plants (Volkswagen SA). Car parts 	Give credit for a reasonable and relevant alternative. 1 mark per concept – can be a list.