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GAUTENG DEPARTMENT OF EDUCATION SENIOR CERTIFICATE EXAMINATION

GEOGRAPHY SG (First Paper: Theory)

OCTOBER / NOVEMBER 2005 OKTOBER / NOVEMBER 2005

TIME: 3 hours

MARKS: 240

INSTRUCTIONS:

- Answer FOUR questions: ONE from Section A ONE from Section B ONE from Section C The FOURTH question may be chosen from ANY of the remaining questions.
- All diagrams are included in DIAGRAM BOOK 502-2X.
- Number all questions you are answering down the **centre** of your answer book.
- Leave a **line open** between parts of your answers to a question.
- Start each answer to a new question **at the top** of a new page.
- Do not change the question numbers number according to the question paper.
- Do not write in the margins of your answer book.
- **Encircle** the question numbers that you have answered on the front page of your answer book.
- Write **clearly** and **legibly**.
- Where possible, illustrate your answers with labelled diagrams.
- Credit will be given for insight.

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SECTION A PHYSICAL GEOGRAPHY

Answer at least ONE question from this section.

QUESTION 1

1.1 Refer to the synoptic weather map in **Figure 1.1** and answer the questions that follow.

1.1.1	Find	high-pressure cells C , D and E .	
	(a)	Identify high-pressure cells C , D and E .	(3)
	(b)	In which direction does air rotate around these high-pressure cells?	(1)
	(c)	List TWO other characteristic air movements associated with these high-pressure cells.	(2)
	(d)	Air rotating around high-pressure cell A is blowing over a cold ocean. Explain why this will result in <u>dry conditions</u> (low rainfall) along the South African west coast.	2x2=(4)
1.1.2	(a)	Identify the <u>fronts</u> labelled A and B on the synoptic weather map.	(2)
	(b)	Find the weather station for Port Elizabeth ahead (east) of front A . List the following weather conditions experienced at Port Elizabeth which are typical of <u>berg-wind</u> conditions for this time of year:	
		TemperatureCloud coverWind direction	3x2=(6)
	(C)	Name the <u>natural hazard (danger)</u> associated with the development of berg-winds.	1x2=(2)
	(d)	Give ONE solution to <u>minimise</u> the problems associated with the natural hazard mentioned in Question 1.1.2 (c).	1x2=(2)
	(e)	How are berg-wind conditions terminated (ended)?	1x2=(2)

1.2 **Figure 1.2 A** shows an area in which two rivers are situated on two different levels.

Figure 1.2 B shows the longitudinal profiles of the two rivers <u>before</u> river capture / piracy will take place. The diagram below shows the same landscape after river capture / piracy has taken place.



1.2.1 (a) Identify the features of river capture / piracy labelled V, W, X, Y and Z. Choose from the following list of features:

captor stream, captured / captive stream, wind gap, misfit stream, elbow of capture

			· · ·
	(b)	Explain how the <u>volume of water</u> and the <u>erosive capacity</u> or stream ${f W}$ will change after river capture.	2x2=(4)
1.2.2	(a)	Identify the THREE courses of a river represented by positions K , L and M in Figure 1.2 B .	(3)
	(b)	Draw <u>transverse (cross-sectional)</u> profiles at each of the positions K , L and M .	3x2=(6)
Figure the sam	1.3 sho ne ecos	ows an ecosystem which <u>exdudes</u> man. Figure 1.3 B shows system including man.	
1.3.1	Defin	e the term <u>ecosystem</u> .	(1)
1.3.2	Expla produ	ain why the <u>vegetation</u> in this ecosystem is referred to as a <u>ucer</u> .	2x2=(4)
1.3.3	ldenti	ify ONE <u>consumer</u> in the diagram.	1x2=(2)
1.3.4	Give in the	ONE example of a <u>herbivore</u> and a <u>carnivore</u> that you can see diagram.	2x2=(4)
1.3.5	What throug	will happen to the amount of <u>energy</u> as it is transferred ghout this ecosystem?	1x2=(2) [60]

1.3

5x2 = (10)

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QUESTION 2

2.1.1	(a) (b)	What is an <u>inversion layer</u> ? Name the high-pressure cell represented by the arrows	(2)
	(b)	Name the high-pressure cell represented by the arrows	
		marked D .	(1)
	(c)	Briefly explain why the air is subsiding at D .	2x2=(4)
2.1.2	Figure	e 2.1 A represents summer conditions.	
	(a)	Give a point of evidence visible on the diagram to support the statement that Figure 2.1 A represents summer conditions.	1x2=(2)
	(b)	Describe the weather conditions one can experience over the <u>interior</u> of South Africa during the season illustrated in Figure 2.1 A . Select THREE from the following options:	
		clear skies, rainfall, high temperatures, frost at night, lower pressure	3x2=(6)
2.1.3	Refer KwaZu	to Figure 2.1 B showing a valley along the foothills of the ulu/Natal Drakensberg.	
	(a)	Identify wind ${\bf Y}$ as a katabatic / downslope or an anabatic / upslope wind.	(1)
	(b)	Does Figure 2.1 B represent day or night time?	1x2=(2)
	(c)	Give ONE reason for your answer to Question 2.1.3 (b).	1x2=(2)
	(d)	Briefly explain how wind Y develops.	2x2=(4)
Figures example various c	2.2 A a of suc	and 2.2 B show the development of a granite dome. An h a dome is Sibede Rock in Swaziland. Figure 2.2 C shows le patterns, one of which is typical of a granite dome structure.	
2.2.1	Refer	to Figures 2.2 A and 2.2 B.	
	(a)	Identify the igneous rock structure from which a granite dome develops.	(1)
	(b)	What rock type does this dome consist of?	(1)
	(C)	How does the igneous rock structure mentioned in Question 2.2.1 (a) become exposed on the earth's surface?	2x2=(4)
	(d)	Once exposed on the earth's surface, the granite dome will weather away. Which weathering process, exfoliation or ice shattering, will most likely weather the granite dome away?	1x2=(2)
	2.1.2 2.1.3 Figures example various o 2.2.1	(c) 2.1.2 Figure (a) (b) 2.1.3 Refer (a) (c) (d) Figures 2.2 A example of suc various drainag 2.2.1 Refer (a) (b) (c) (d) (c) (d) (c) (d)	 (c) Briefly explain why the air is <u>subsiding</u> at D. 2.1.2 Figure 2.1 A represents <u>summer</u> conditions. (a) Give a point of evidence visible on the diagram to support the statement that Figure 2.1 A represents summer conditions. (b) Describe the weather conditions one can experience over the <u>interior</u> of South Africa during the season illustrated in Figure 2.1 A. Select THREE from the following options: 2.1.3 Refer to Figure 2.1 B showing a valley along the foothills of the KwaZulu/Natal Drakensberg. (a) Identify wind Y as a katabatic / downslope or an anabatic / upslope wind. (b) Does Figure 2.1 B represent day or night time? (c) Give ONE reason for your answer to Question 2.1.3 (b). (d) Briefly explain how wind Y develops. Figures 2.2 A and 2.2 B show the development of a granite dome. An example of such a dome is Sibede Rock in Swaziland. Figure 2.2 C shows various drainage patterns, one of which is typical of a granite dome structure. 2.2.1 Refer to Figures 2.2 A and 2.2 B. (a) Identify the igneous rock structure from which a granite dome develops. (b) What rock type does this dome consist of? (c) How does the igneous rock structure mentioned in Question 2.2.1 (a) become exposed on the earth's surface? (d) Once exposed on the earth's surface, the granite dome will weather away. Which weathering process, exfoliation or ice shattering, will most likely weather the granite dome away?

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2.2.2 Refer to **Figure 2.2 C**.

	(a)	Which ONE of the two diagrams (i) or (ii) shows the drainage pattern typical of a granite dome?	(1)
	(b)	Name the drainage pattern typical of a granite dome.	(1)
	(c)	Briefly explain why the drainage pattern mentioned in Question 2.2.2 (b) develops at a granite dome.	2x2=(4)
	(d)	Except for Question 2.2.2 (b), mention any TWO other drainage patterns that you have studied.	2x2=(4)
2.2.3	The r Thou activi	ounded foothills of KwaZulu/Natal are known as the Valley of a sand Hills. These foothills are well suited for agricultural ties.	
	(a)	List TWO <u>physical</u> factors that make these foothills suitable for agriculture.	(2)
	(b)	Name ONE <u>agricultural product</u> that is commonly produced in this region. Select from ONE of the following options:	
		sugar cane, maize or grapes	1x2=(2)
	(c)	Give ONE farming method which farmers should introduce in this region to minimise soil erosion.	1x2=(2)
Figure forming	2.3 sho factors	ows how <u>climate</u> influences both the biotic and abiotic soil- s.	
2.3.1	From	Figure 2.3 identify ONE	
	(a)	biotic soil-forming factor.	(1)
	(b)	abiotic soil-forming factor.	(1)
2.3.2	(a)	Define the term weathering.	(2)
	(b)	What is the end product of weathering?	1x2=(2)
	(c)	Which property (constituent / part) of weathered rock, evident in Figure 2.3 , is transferred to the soil?	1x2=(2)
2.3.3	(a)	What is <u>humus</u> ?	(2)
	(b)	Why is the formation of humus important for soil?	1x2=(2) [60]

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SECTION B SETTLEMENT GEOGRAPHY

Answer at least ONE question from this section.

QUESTION 3

3.1	Refer to Figure 3.1 be	fore answering the	following questions.

3.2

3.1.1	(a)	Describe the <u>settlement pattern</u> of the settlement called Hillside as nucleated / clustered or as dispersed / isolated.	(1)
	(b)	Give a reason for your answer to Question 3.1.1 (a).	(1)
3.1.2	(a)	The <u>shape</u> of the farms in Hillside is rectangular. Give TWO reasons why the farms developed this shape.	2x2=(4)
3.1.3	(a)	Explain the meaning of the term site.	(2)
	(b)	The Berg River played an important role in the selection of this specific site for the establishment of Hillside. Explain why this is so.	1x2=(2)
	(C)	Water could also be a threat to a settlement. Why is this so?	1x2=(2)
Refer to	Figur	e 3.2 before answering the following questions.	
3.2.1	The c farms <u>did no</u>	centre of the farm is considered to be the ideal site for a stead. Give ONE possible reason why the owner of Rocklands ot select a central position for his farmstead.	1x2=(2)
3.2.2	The fa	armer at Rocklands practises <u>mixed farming</u> . What does this n?	1x2=(2)
3.2.3	The fa econo land.	armer at Rocklands lives on his <u>own farm</u> . Give TWO omic <u>advantages</u> that the farmer enjoys for living on his own	2x2=(4)
3.2.4	Give	ONE social disadvantage for the farmer living on his own land.	1x2=(2)
Refer to Howeve settleme	Figur er, the <u>s</u> ents wi	e 3.3 . Pine Village and Kingstown are both central places. sphere of influence and <u>range of goods</u> of these two Il differ. Explain the meaning of the following terms:	
3.3.1	Centr	al place	(2)
3.3.2	Sphe	re of influence	(2)
3.3.3	Rang	e of goods	(2)

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	3.3.4	(a)	To which settleme inhabitants of Hills bread?	ent, Pine Village or Kingstow side most likely travel, to buy	ז, would milk and	1x2=(2)
		(b)	Explain your answ	ver to Question 3.3.4 (a).		1x2=(2)
		(c)	To which settleme inhabitants of Hills	ent, Pine Village or Kingstow side most likely travel, to buy	n, would furniture?	1x2=(2)
		(d)	Explain your answ	ver to Question 3.3.4 (c).		1x2=(2)
3.4	Refer to	Figur	e 3.4 showing the s	settlement named Kingstown		
	3.4.1	Find	the CBD of Kingsto	wn.		
		(a)	What do the letter	rs CBD stand for?		(3)
		(b)	Where is the CBD	located?		1x2=(2)
		(c)	Why did the CBD	start here?		1x2=(2)
	3.4.2	The u <u>buildi</u> buildi	urban profile shows ings are found in the ings here?	a side view of a settlement. e CBD. Why do we find the h	The <u>highest</u> nighest	2x2=(4)
	3.4.3	At pro	esent many shops a rbs.	and offices are moving out th	e CBD to the	
		(a)	What term is used offices from the C	t to describe the <u>movement</u> on <u>BD</u> to the suburbs?	of shops and	(1)
		(b)	Give TWO <u>reason</u> the CBD to the su	<u>is</u> why shops and offices are burbs.	moving out of	2x2=(4)
		(C)	Give TWO possib from moving out c	le <u>solutions to prevent</u> shops of the CBD to the suburbs.	and offices	2x2=(4)
	3.4.4	There scare conve bit of	e is a large area des ce in or near the CB ert this area for busi <u>land as a park</u> ?	signated as <u>parks</u> . As land b D, pressure from business bi iness use. Why is it importar	ecomes more uilds up to nt to <u>keep this</u>	2x2=(4) [60]

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QUESTION 4

4.1	Settleme based o	ements are divided into rural and urban settlements. This classification is d on economic activities taking place at these settlements.		
	4.1.1	(a)	What is a <u>settlement</u> ?	(2)
		(b)	With reference to <u>economic activities</u> (primary, secondary and tertiary), distinguish between rural and urban settlements.	(2)
		(C)	Give ONE example of each of the above-mentioned <u>activities</u> in rural and urban settlements respectively.	(3)
	4.1.2	Many settler rural c	people leave the rural settlements to go and live in urban ments such as the one illustrated in Figure 4.1 . This results in depopulation.	
		(a)	Define the term rural depopulation.	(2)
		(b)	List THREE <u>push factors</u> in the rural areas resulting in rural depopulation.	3x2=(6)
		(c)	List THREE <u>pull factors</u> in the urban areas resulting in rural depopulation.	3x2=(6)
		(d)	Discuss possible <u>countermeasures</u> that can be introduced to <u>slow down</u> rural depopulation.	2x2=(4)
4.2	Many of Figure 3	the ne 3.4 befo	ewcomers to the city will find employment in industries. Refer to ore answering the following questions.	
	4.2.1	Distin	guish between <u>light</u> and <u>heavy</u> industries.	(2)
	4.2.2	Give (ONE example of a light industry and ONE of a heavy industry.	(2)
	4.2.3	Indica and in	ate in which of the zones, A or B , you will find light industries which you will find heavy industries.	2x2=(4)
	4.2.4	Expla	in why the industries at B are situated <u>far away from the CBD</u> .	2x2=(4)
	4.2.5	Indus [.] can b	tries are the main culprits of air pollution in the city. What steps e introduced to minimise air pollution from factories?	2x2=(4)

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4.3 Many of the newcomers to the city are not so lucky to find employment. They live on the outskirts of the city in informal (squatter) settlements. Read the paragraph below and answer the questions that follow.

Nokhwesi Ngcer Waste is a pronce a week to so people have are toilets, but th doesn't often cler into our houses. our food and ou diarrhoea. (Khayelitsha is of housing. Most r	nge who lives in a squatter camp in Cape Town writes: oblem in Khayelitsha because the council only comes take it away. We have no containers to put the waste in, to leave it in the streets. We have heaps of waste. There hey're not drained, they're left open and the council an them. Flies go in and out of these toilets and come We get diseases because the flies eat waste and sit on r children's bottles. We get sick and our children get Cape Town's biggest township. It has very little formal esidents have to live in tin shacks.)	
4.3.1	What is an informal settlement?	(2)
4.3.2	What are the houses in informal settlements mad	e of? (1)
4.3.3	Why do these informal settlements develop?	2x2=(4)
4.3.4	List any THREE <u>problems</u> encountered by the inh informal settlements.	abitants of these 3x2=(6)
4.3.5	Give possible <u>solutions</u> to make life for the inhabit settlements easier.	tants of informal 2x2=(4)
4.3.6	Many inhabitants of these informal settlements fir the <u>informal sector</u> . Give ONE example of emplo informal sector.	nd employment in yment in the 1x2=(2) [60]

SECTION C SOUTH AFRICAN GEOGRAPHY

Answer at least ONE question from this section.

QUESTION 5

The Kalahari

The area of Kalahari sands encompasses some 2 million km² and the range in rainfall throughout this area is considerable. It varies from the scanty, erratic rain of the extreme south to the more tropical conditions in the north. As the quantity and reliability of the rainfall vary, so too does the vegetation. Given these facts, what then is the agricultural potential of the Kalahari? In all its sprawling vastness and for all the millennia that it has withstood the ravages of time, today the Kalahari and its wildlife face a greater threat to their continued existence than ever before. It is also, ecologically speaking one of the most fragile and delicately balanced ecosystems and, as such, it is quick to succumb to mismanagement and abuse.

Adapted from Kalahari by Michael Main

5.1 Refer to **Figure 5.1** showing the location of the Kalahari.

5.1.1	(a)	In which South African <u>province</u> is most of the southern Kalahari located?	1x2=(2)
	(b)	Provide the name of the <u>capital city</u> of the province identified in Question 5.1.1 (a).	1x2=(2)
5.1.2	(a)	Identify the exotic river that flows just south of the Kalahari.	1x2=(2)
	(b)	Why is this river referred to as exotic?	1x2=(2)
	(c)	Into which ocean does the exotic river flow?	1x2=(2)
Once a	gain re	fer to Figure 5.1 .	
5.2.1	(a)	With which ONE of South Africa's <u>neighbouring countries</u> does the Limpopo River form an international boundary?	1x2=(2)
	(b)	Into which ocean does the Limpopo River flow?	1x2=(2)
5.2.2	ldent Ques	ify River X , a main tributary of the exotic river mentioned in tion 5.1.2 (a).	1x2=(2)

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5.2.3 After the <u>confluence</u>, the exotic river flows past the town of Prieska. With added water from its tributaries, the exotic river may easily flood.

	(a)	What is a <u>flood</u> ?	1x2=(2)				
	(b)	Explain the meaning of the term confluence.					
	(c)	c) How can the point of confluence result in a flood?					
	(d)) List TWO <u>consequences</u> of flooding for the town of Prieska.					
	(e)	Assume you were appointed as an environmental consultant to address the dangers of flooding. Discuss TWO <u>flood</u> <u>prevention</u> measures.					
5.2.4	Further downstream, in the last stage of the river's cycle, the exotic river plunges down the Augrabies Falls.						
	(a)	a) What is the name given to the <u>last stage</u> of the river's course?					
	(b)	It is unusual to find a waterfall in this last stage. In which stage do waterfalls usually occur?					
	(c)	The Augrabies Falls causes the river to become <u>rejuvenated</u> as a result of an <u>increase</u> in gradient of the land. Explain what will happen to the river's <u>velocity</u> (speed) and <u>erosive</u> <u>capacity</u> (ability to erode) at the point of rejuvenation.	2x2=(4)				
The eco domina annual	onomic tes, wh rains.	potential of the Kalahari region is very limited. <u>Dryland farming</u> ich implies no irrigation. Thus farming is totally dependent on					
5.3.1	(a)	Is farming a primary, secondary or tertiary economic activity?	(1)				
	(b)	Provide a reason for your answer to Question 5.3.1 (a).	1x2=(2)				
5.3.2	Why is <u>dryland farming</u> (instead of irrigation farming) more widely practised in this Kalahari region?						
5.3.3	Discuss the reason why dryland farming produces very few crops.						

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5.3.4 Overgrazing can cause an environmental imbalance when using dryland farming methods.

5.4

	(a)	Explain the term <u>overgrazing</u> .	1x2=(2)					
	(b)	How can overgrazing cause an environmental imbalance?						
<u>Tourism</u> Kgalaga region.	forms di Trar	an alternative economic potential, and the establishment of the nsfrontier Park has contributed favourably to the <u>G.D.P.</u> of the						
5.4.1	(a)	Is tourism a primary, secondary or tertiary economic activity?	(1)					
	(b)	Provide a reason for your answer to Question 5.4.1(a).	1x2=(2)					
	(c)	How does tourism benefit the people of the Kalahari?	1x2=(2)					
5.4.2	(a)	What does the abbreviation <u>G.D.P.</u> stand for?	1x2=(2)					
	(b)	How does the establishment of the Kgalagadi Transfrontier Park affect the G.D.P. of the province?	1x2=(2) [60]					

QUESTION 6

Garden of South Africa	Fact File: KwaZulu/Natal
Garden of South Africa KwaZulu/Natal is known for its subtropical, often lush plant life and the gentle beauty of its Midlands region. Its long maritime belt is fringed by the waters of the Indian Ocean, by wide white beaches and, in the north, by patches of indigenous forest and some of the world's highest vegetated dunes. Further to the west are the towering	Fact File: KwaZulu/Natal Area: 92 100 km ² Percentage of total area of S.A: 7,6% Population: 9,8 million Percentage of total population: 21% Main languages: IsiZulu (80%) English (16%) Afrikaans (2%) Economic activities: Marine services, tourism, coal, manufacturing, forestry, farming.
heights of the Drakensberg range,	Percentage of total G.D.P.: 15,8%
1 046 km in length and the most prominent segment of South Africa's Great Escarpment.	(Adapted from: World Atlas for South Africans)

6.1 Refer to the introductory paragraph as well as to **Figure 6.1** before answering the questions below.

6.1.1	South Africa has three coastlines, the west coast, south coast and								
	east coast. On which of South Africa's coasts is the province of								
	KwaZulu/Natal located?								

6.1.2 Identify the <u>capital city</u> of KwaZulu/Natal. (1)

(1)

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6.1.3	Name KwaZ	e the THREE <u>countr</u> Zulu/Natal.	ies which form international b	oundaries with	(3)			
6.1.4	In whi	ich <u>climatic region</u> is	s KwaZulu/Natal located?		(1)			
6.1.5	What mountain range dominates the relief of KwaZulu/Natal?							
Refer to for Durb	Figur an.	es 6.2 A and 6.2 B,	showing temperature and ra	infall variations				
6.2.1	Figur Janua the m	e 6.2 A indicates th ary and July. The <u>te</u> aximum and minim	e <u>average daily temperature</u> emperature range is the differ um daily temperatures.	<u>range</u> in both ence between				
	(a)	What is the <u>avera</u> <u>January</u> ?	ge maximum temperature for	Durban in	1x2=(2)			
	(b)	What is the <u>averac</u> January?	<u>ge minimum temperature</u> for I	Durban in	1x2=(2)			
	(C)	Calculate the <u>aver</u> subtracting the mi	rage temperature range for Dunimum temperature from the	urban by maximum.	1x2=(2)			
6.2.2	Figur	e 6.2 B shows the r	monthly rainfall for January ar	nd July.				
	(a)	Which <u>month</u> expe	eriences the <u>highest</u> rainfall?		(1)			
	(b)	What is the name coast of Durban?	of the <u>ocean current</u> that flow	's past the	(1)			
	(c)	Is the ocean curre <u>cold</u> ocean curren	nt identified in Question 6.2.2 t?	: (b) a <u>warm</u> or	(1)			
	(d)	Explain what the e in Durban.	effect of this ocean current is o	on the <u>rainfall</u>	2x2=(4)			
6.2.3	The h variet	igh rainfall received y of natural vegetat	l in KwaZulu/Natal can suppo ion.	rt a large				
	(a)	Is natural vegetation	on a <u>renewable</u> or <u>non-renew</u>	<u>able</u> resource?	1x2=(2)			
	(b)	Much of the land u forestry and farmir been affected by t	use in KwaZulu/Natal is in the ng. Discuss how the <u>natural v</u> hese economic activities.	form of <u>vegetation</u> has	2x2=(4)			
	(C)	Suggest possible	<u>solutions</u> to counteract this im	balance in the	2x2=(4)			

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The Tugela River is one of the larger of the Tugela-Vaal water transfer	gest rivers in KwaZulu/Nata scheme. Refer to Figure 6 .	I and forms part .3 which shows	

			TOTAL:	240					
	6.5.2	List TWO types of <u>industries</u> that can be found in the Durban- Pinetown region.							
	6.5.1	What	TWO factors have <u>attracted</u> industries to locate to this area?	(2)					
6.5	KwaZuli area.	u/Nata	I has a very important industrial region in the <u>Durban-Pinetown</u>						
		(b)	How will this in turn affect the economy of KwaZulu/Natal?	1x2=(2)					
		(a)	How will HIV/Aids affect the labour force in KwaZulu/Natal?	2x2=(4)					
	6.4.2	The i	mpact of HIV/Aids is of particular significance.						
		(a) (b) (c)	Natural resources Pollution Provision of services	1x2=(2) 1x2=(2) 1x2=(2)					
	6.4.1	Discu likely	uss how an increasing population density in KwaZulu/Natal is to affect:						
6.4	The hig pull fact the scar	h rainfa ors to s on th	all and fertile soils of KwaZulu/Natal have acted as "magnets" / people. However, as the <u>population density</u> increases, so do ne landscape.						
		(c)	Why was this environmental conservation regarded as necessary?	1x2=(2)					
		(b)	Explain the meaning of environmental conservation.	1x2=(2)					
		(a)	What is indigenous vegetation?	1x2=(2)					
	6.3.4	During construction, topsoil and the seeds of <u>indigenous vegetation</u> were <u>conserved</u> .							
	6.3.3	Discu	uss TWO aims of the Tugela-Vaal water transfer scheme.	2x2=(4)					
		(b)	Study the diagram. How many <u>dams</u> form part of the Tugela- Vaal water scheme?	(1)					
		(a)	What is an escarpment?	1x2=(2)					
	6.3.2	The <u>C</u>	Great Escarpment divides the dams above from the ones below.						
	6.3.1	Into which ocean does the Tugela River flow?							
	this wat	er transfer scheme.							

SENIOR CERTIFICATE EXAMINATION SENIORSERTIFIKAAT-EKSAMEN



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FIGURE 2.1A FIGUUR 2.1A ANTICYCLONE / ANTISIKLOON D INVERSION INVERSIE PLATEAU PLATO ESCARPMENT PLATORAND WARM SEA KWAZULU/NATAL WARM SEE **FIGURE 2.2A FIGURE 2.2B FIGUUR 2.1B FIGURE 2.1B FIGUUR 2.2A FIGUUR 2.2B** Granite batholith Granite dome Granietbatoliet Granietkoepel Х **FIGURE 2.3** To form Mineral soil Rocks **FIGURE 2.2C FIGUUR 2.2C** Climate Soil (i) Which Vegetation to form decays Humus **FIGUUR 2.3** En vorm Mineraal-Rotse grond (ii) Grond Klimaat Wat verrot Humus Plantegroei en vorm

FIGUUR 3.1







DIENSTE NANDEBIED DEUR KINGSTOWN
1. Administrasie : Streeksdiens-
kantoor
2. Finansied · Banke
3. Skole
4. Supermarkte en gnder winkels
s. Kerke
6. Teater
7. kooperasie
& Sakesentrum
9. Vervoer- en Kommunikasiesentrum



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P.T.O. / b.o.









_				-	_		-			-			
SERVICES OFFERED BY KINGSTOWN	1. Administration : Regional	gord intralic control	2. Financial : Banks	3. Schools	4. Supermarkets and other stores	5. Churches	6. Theatre	7. Co-operative	o. Business centre	9. Transport and communication centre			
SERVICES OFFERED BY PINE VILLAGE	1. General store	2. Cafe	3. Church	4. Primary school	5. Police station	G. Community centre	7. Saturday market place	-	Ρ	.T.(D. /	b.c	,

FIGURE 3.4

industries motorway

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9 ŵ Ø

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railway line

200 B

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/ N river

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residential — upper income
 residential — middle income
 residential — lower income

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FIGUUR 4.1



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Reënval

FIGUUR 6.3

FIGURE 6.3



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