PHOENIX NORTH CLUSTER NOVEMBER EXAMINATION: - 2019 GEOGRAPHY PAPER 1

GRADE: 11

DURATION: 3 HOURS

MARKS: 225

INSTRUCTIONS TO CANDIDATES:

- 1. This question paper consists of TWO sections (A and B) with FOUR questions. You are required to answer <u>THREE questions</u> of 75 marks each.
- 2. Number your answers exactly as the questions are numbered.
- 3. Write neatly and legibly.
- 4. All diagrams appear in an annexure with the corresponding number of the question next to it.
- 5. This question paper consists of __10__ pages with an annexure of __9__pages.

SECTION A QUESTION ONE: THE ATMOSPHERE AND GEOMORPHOLOGY

1.1. Refer to figure 1.1 in the annexure and choose the answer from those within the brackets. Write the answer only.

- 1.1.1. Letter A represents (high pressure, low pressure).
- 1.1.2. The Coriolis force is shown by the letter (X, Y).
- 1.1.3. The 980mb line refers to an (isohyet, isobar).
- 1.1.4. At point Z, where there is a balance between the pressure gradient force and coriolis force it is referred to as (Geostrophic flow, polar easterlies).
- 1.1.5. This diagram represents air flow in the (northern hemisphere, southern hemisphere) because the deflection of wind is to the (left, right) in terms of direction.
- 1.1.6. Low pressure area is indicated by the letter (A, B).

 $(7 \times 1 = 7)$

1.2. Match the terms in Column B with the statements in Column A. Write the numbers 1.2.1 to 1.2.8 one below the other and next to each only the letter of the correct

<u> </u>	
COLUMN A	COLVINA
1.2.1. Molten material found within the earth's surface.	A. Dyke
1.2.2. Magma contained within the earth's crust.	B. Sill
.2.3. The largest of the dome – shaped igneous intrusive forms.	C. Magma
.2.4. Intrusive mass that are large saucer shaped formed by the collapse of the supporting magma chamber	D. Lopolith
.2.5. Feature formed from the solidification of magma vertically.	E. Intrusive
2.6. A series of rock layers.	F. Strata
2.7. Rocks that allow water to move through them.	G. Batholith
2.8. Igneous intrusion of magma injected and are laid down horizontally.	H. Permeable
	I. Laccolith

 $(8\times1=8)$

1.3. Refer to the synoptic weather map labelled 1.3 in the annexure and answer the

- 1.3.1. Apart from the date, give a piece of evidence from the synoptic chart to state that this is a summer synoptic situation. 1.3.2. Identify the isobaric interval used on the synoptic map. (1) 1.3.3. Identify high pressure systems labelled: (1) a) X b) Y (2) (2) 1.3.4. Refer to weather phenomenon L 1.3.4.1. Identify this weather feature. 1.3.4.2. It is expected that this weather feature would reach Cape Town in the next 24 hours. (1) Explain two weather changes that are likely to occur with its passage. 1.3.5. Refer to the weather station at Harare and state the following:-(4)
- 1.3.5.1.Air temperature
- 1.3.5.2. Dew point temperature
- 1.3.5.3. Wind speed
- 1.3.5.4. Wind direction

(4)

[15]

1.4. Refer to the isobar map for January in Africa labelled 1.4 in the	annexure and
answer the questions.	
1.4.1. Area B shows a low pressure area over Equatorial Africa. Will the	is area be associated
with convergence or divergence?	(1)
1.4.2. Will wind C or D be stronger? Give a reason for your answer.	(2)
1.4.3. Refer to ocean current labelled X.	
1.4.3.1.Name this ocean current?	(1)
1.4.3.2. Explain the influence that this ocean current (answer to 1.4.3.1.)	will have on rainfall
along the area it flows.	(2)
1.4.4. Area B, according to Africa's climatic regions is the Tropical Rain	n forest.
1.4.4.1. List one of its biome characteristic.	(1)
1.4.5. In a paragraph of approximately 8 lines, explain the effects of	El Nino on Africa'
climate.	(8)
	[15]
1.5.Refer to the diagram labelled 1.5 in the annexure based on slope /	slope elements.
15.1. Explain the following terms:-	
1.5.1.1. Slope	(2)
1.5.1.2. Topography	(2)
1.5.2. Slopes are classified according to Lester Kings Four elements mode	l. Name/Identify
slope element:	
1.5.2.1. A	
1.5.2.2. C	
1.5.2.3. B	
1.5.2.4. D	(4)
1.5.3. Differentiate between slope A and D in terms of shape.	(2)
1.5.4. How can slope B be used for recreation? (2 answers)	(2)
.5.5. Identify the slope that would be suitable for farming.	(1)
.5.6. Give one reason for your answer above.	(2)
	[15]
.6. Refer to the diagrams labelled 1.6 on topography associated with i	nclined rock
trata in the annexure and answer the questions.	
.6.1. Explain the following terms:	
.6.1.1. Inclined rock strata	
.6.1.2. Scarp slope	
.6.1.3. Dip slope	(3)
.6.2. Match the following topographical features with diagrams A, B and	C.
Cuesta	
Hogsback	
Homoclinal ridge	(3)
.6.3. Briefly explain how feature A forms.	(3)
.6.4. Differentiate between feature A and C in terms of structure.	(2)
.6.5. Explain 2 ways in which feature A will benefit humans.	(4)
	[15]

QUESTION TWO THE ATMOSPHERE AND GEOMORPHOLOGY

2.1. Refer to the diagram labelled 2.1 in the annexure on the effect of latitude and answer the questions.

- 2.1.1. The tropic of Cancer is represented by letter (M, O).
- 2.1.2. The latitudinal position of the tropic of Capricorn is (23.5°S, 23.5°N).
- 2.1.3. The angle of the sun's rays is 90° at (A, B).
- 2.1.4. Area B is (intensely, less intensely) heated because there is a (larger, smaller) surface area to be heated.
- 2.1.5. The angle of the sun's rays at B can be described as (acute, oblique).
- 2.1.6. One of the ways in which heat is lost in the atmosphere in through (condensation, scattering).

 $(7 \times 1 = 7)$

2.2. State the term/concept referred to in each of the following statements.

- 2.2.1. The movement of loose material down a slope due to the influence of gravity.
- 2.2.2. The very slow movement of topsoil down a slope.
- 2.2.3. Rapid downward movements of slope material resulting from fairly sudden slope failure.
- 2.2.4. A saturated layer of material moves slowly over frozen ground.
- 2.2.5. Cap rock that has broken off, slides a short distance down the slope.
- 2.2.6. When material becomes saturated with water causing it to become like plastic and flow downhill.
- 2.2.7. Fragments of rock slide topple or fall of a free face slope to collect at the talus below.
- 2.2.8. Stone walls built at the base of a slope to prevent rock falls.

$(8 \times 1 = 8)$ 2.3. Refer to figure labelled 2.3 in the annexure on Monsoons and answer the following:-2.3.1. What does the term "monsoon" mean? (2) 2.3.2. Match diagram A and B with: I. Summer monsoon (1) II. Winter monsoon (1) Ш. Give a reason for your answer in each case. **(2)** 2.3.3. Explain how the monsoon condition in diagram A develops. (3)2.3.4. "The people living in India rely on the arrival of the South West monsoon...however, they are saddened at times". Evaluate this statement. (6) [15] 2.4. Refer to figure 2.4 which is a case study on drought and answer the questions. 2.4.1. Define the term drought. (1) 2.4.2. What was the main cause of this drought? (1)

The second of th	oted by the Department of Water Affairs to		
drought.		((2)
2.4.4. Discuss the impact of dr	ought on:-		
2.4.4.1. People			(3)
2.4.4.2. Environment			(3)
2.4.4.3. Economy			(3)
	umer behaviour in addressing the issue of	the same of the sa	
the community".			(2)
		[:	15]
2.5. Refer to figure 2.5 in the	annexure on the formation of landform	s in a landscape	
with horizontal layers and an	iswer the questions.		
2.5.1. What is canyon?			1)
2.5.2. Briefly explain how a ca	nyon forms.	(2)
2.5.3. Complete the table below	w. Write only the roman-numeral and next	to it the answer.	
	A	В	
Name of landform	(i)	(ii)	
Description	(iii)	(iv)	
living in the area as well as an	with horizontal rock strata can be both a pradvantage". In a paragraph of approximate canyon landscapes with the aid of examp	roblem for people ely 8 lines discuss	
2.6. Refer to figure 2.6 in the	annexure on Chapmans Peak Drive and	l answer the	
questions.		P GOLD TO GET	
2.6.1. Explain the following ten	rms:		
2.6.1.1. Mass movement		(2)	
2.6.1.2. Upgrading		(2)	
2.6.2. What do you think is the	main cause of rockfalls at Chapman's Pea		
2.6.3. Identify a word from the	case study that tells us that Chapman's Pe		oe .
highly dangerous.	alor rose or a second when a los	(1)	
	ngineers put in place to secure rocks from		rs)
	niing tindi aay isa ay maaldaga matte y	(4)	
2.6.5. Discuss the negative imp	pact of the periodic closures of Champan's	Peak Drive, on th	ne
economy of Western Cape.	Thingshill authorize confidence	(4	1)
		[15	

SECTION B QUESTION 3

DEVELOPMENT GEOGRAPHY AND RESOURCES AND SUSTAINABILITY

3.1. Read the statements below and determine if the statement refers to a MEDC (More economically developed country) or a LEDC (less economically developed country. Write only your choice (MEDC or LEDC) next to the question number (3.1.1. -3.1.8) E.g. 3.1.9. LEDC

- 3.1.1. Very few individuals die before the age of 5 years.
- 3.1.2. Death rate is high due to poor health care.
- 3.1.3. The majority of people have access to medical care.
- 3.1.4. Service delivery is often poor.
- 3.1.5. Literacy rates are high because the majority of children have access to free education.
- 3.1.6. Life expectancy is high.
- 3.1.7. The rate of unemployment is low.
- 3.1.8. 200-500 babies per 1000 people are born per year.

 $(8 \times 1 = 8)$

3.2. Choose a term from Column B that matches the description in Column A. Write only the letter (A to H) next to the question number (3.2.1. – 3.2.7.) e.g. 3.2.8. J

only the letter (A to H) next to the question	number (3.2.1. – 3.2.7.) e.g. 3.2.8. J
COLUMN A	COLUMN B
3.2.1. The amount of carbon a person	A. Thermal Energy
contributes to polluting the atmosphere	
through his/her daily lifestyle.	
3.2.2. A substance that releases atomic	B. Kinetic Energy
radiation.	
3.2.3. Conference of the United Nations	C. Carbon Footprint
regarding climate change in Durban.	
3.2.4. Energy which is released when heat is	D. Conventional energy sources
transferred from one source to another.	
3.2.5. Stored energy which is released due to	E. Radioactive
movement.	
3.2.6. The measures taken to regulate the	F. COP 17
type and amount of energy being used.	
3.2.7. Consists of fossil fuels and other non-	G. Energy management
renewable resources.	
	H. Kyoto Protocol

 $(7 \times 1 = 7)$

3.3. Refer to figure 3.3 in the annexure and answer the questions that for	ollow:-
3.3.1. List any TWO challenges faced by Africans that is evident in the cart	oon. (2)
3.3.2. According to the cartoon how do the challenges mentioned in question	n 3.3.1 affect
African development.	(3)
3.3.3. Explain the positive and negative impact of development aid on the A	frican continent.
2.2.4 ((77) 77) 1 4 4 1 77	(4)
3.3.4. "The Ebola outbreak in West Africa 2014 claimed the lives of more the	
Analyse how humanitarian aid could prevent the spread of the disease.	(3×2) (6)
	[15]
3.4. Refer to the Graph labelled 3.4 in the annexure an answer the ques	tions that
follow:-	
3.4.1. Define the term fossil fuel.	(2)
3.4.2. What is another word for "coal" power?	(2)
3.4.3. How long will coal last?	(2)
3.4.4. What does the abbreviation Eskom stand for?	(1)
3.4.5. According to GREENPEACE, the use of coal to produce electricity has	as a number of
drawbacks. In a paragraph of about 8 lines, evaluate the use of coal in the pr	oduction of
electricity.	(4×2) (8)
	[15]
3.5. Refer to the table labelled 3.5. in the annexure and answer the quest	tion below:-
3.5.1. Is this table showing a regional, local or global difference in developm	
3.5.2. Does the table focus on economic or human indicators of developmen	t? Give a reason
for your answer.	(2)
3.5.3. Give TWO reasons for the difference in IMR between the United King	gdom and
Ethiopia.	$(2 \times 2) (4)$
3.5.4. "The economic, social, political and cultural activities across the world	
interconnected. In the light of the above statement, explain the advantages	and
disadvantages of Globalisation.	(4×2) (8)
	[15]
3.6. Refer to the Newspaper article labelled 3.6 and answer the questions	that follow:-
3.6.1. State what you understand by alternative energy.	(1)
3.6.2. Suggest a possible reason why Eskom had no immediate plans to elect	
- -	(2)
3.6.3. Explain how electricity will help reduce poverty for the villagers.	$(2\times2)(4)$
3.6.4. State TWO advantages and TWO disadvantages of solar power.	$(2 \times 4)(8)$
•	[15]
	(1
	{75 }

QUESTION 4 DEVELOPMENT GEOGRAPHY AND RESOURCES AND SUSTAINABILITY

4.1. Select from the list below a suitable term that matches the definition provided in Question 4.1.1. – 4.1.7. Write down the question number and correct answer next to the number.

Protectionism, Trade bloc, Terms of trade, Liberalisation of trade, Capitalism, Balance of trade, Balance of Payments, Tariff, Economic development.

- 4.1.1. The relationship between the prices a country sells its exports for and the prices it pays for its imports.
- 4.1.2. The relationship between the value of a country's exports and its imports.
- 4.1.3. A financial summary of all the payments made by a country to the rest of the world.
- 4.1.4. A group of countries that have agreed to trade with one another.
- 4.1.5. Tax collected by government on goods coming into a country.
- 4.1.6. A control that restricts restraints or supports trade to look after the interests of a country.
- 4.1.7. Allowing more freedom of trade.

 $(7 \times 1)(7)$

4.2. Choose the correct answer from the alternatives given.

- 4.2.1. Which of the sources is not a renewable resource?
- A. Biomass
- B. Water
- C. Natural gas
- D. Wind
- 4.2.2. Which type of electricity is produced in volcanic areas where the heat of the rock is used to create enough energy?
- A. Petroleum
- B. Coal
- C. Geothermal
- D. Hydroelectricity
- 4.2.3. Provide the name of the energy which produces ethanol fuel through the use of sugar and maize.
- A. Biomass
- B. Geothermal
- C. Nuclear power
- D. Thermal power

B. Natural Gas	
C. Uranium	
D. Coal	
4.2.5. Where panels are used to produce electrical energy.A. CoalB. Solar	
C. Geothermal D. Wind	
4.2.6. The source which produces nuclear energy.A. UraniumB. CoalC. Petroleum	
D. Natural gas	
4.2.7. Which of the following sources has high potential, but is currently unde South Africa?A. UraniumB. CoalC. Water	rutilised in
D. Geothermal	
 4.2.8. Which of the sources causes more acid rain in urban areas? A. Natural Gas B. Biomass C. Uranium D. Coal 	
4.3. Refer to figure 4.3 in the annexure and answer the questions that follows 4.3.1. What is community development? 4.3.2. What is the aim of the community development project organised by Ums 4.3.3. Mention why crop production training is sustainable within Umsizi frame 4.3.4. How does agricultural crop production training benefit the community and development? 4.3.5. Explain the meaning of the following terms: a) Impoverished community b) Sustainable	(1) sizi. (2)
c) Rural development	(3×2) (6) [15]

4.2.4. Which of the following sources is not a fossil fuel?

A. Oil

4.4. Study figure 4.4 showing graphs about South Africa's energy usage and	needs and
answer the questions.	
4.4.1. Which household unit consumes the mot energy in South Africa?	(1)
4.4.2. What other alternatives can the people of South Africa use to reduce the co	nsumption
of energy.	(2)
4.4.3. Explain how the information in graph 1 negatively impact the economy of	South
Africa.	$(2 \times 2)(4)$
4.4.4. List four ways how South Africa's can use electricity more sustainably	$(4 \times 2)(8)$
	[15]
4.5. Study Figure 4.5 in the annexure, which illustrates the effects of aid on the	<u>ne</u>
development of Third World countries, and answer the questions:-	
4.5.1. Define the term multilateral aid?	(2)
4.5.2. Explain why the aid provided is unsustainable as depicted in the illustration	ı. (2)
4.5.3. Three types of aid, technical, conditional or humanitarian may be provided countries.	to recipient
a) Name the type of aid depicted in the illustration.	(1)
b) Substantiate your answer to Question 4.5.3 (a)	(2)
4.5.4. In a paragraph of approximately 8 lines, assess the impact of aid in the Thir	d World
countries.	$(4 \times 2)(8)$
	[15]
4.6. Study Figure 4.6 in the annexure and answer the questions below:-	
4.6.1. What is a resource?	(1)
4.6.2. Differentiate between recycle and reuse.	(2)
4.6.3. Discuss how recycling can cause economic development.	(4)
4.6.4. In our school environment list two ways how learners can reduce waste.	(4)
4.6.5. Explain two procedures associated with recycling.	(4)
	[15]
	{75 }

FIGURE 1.1

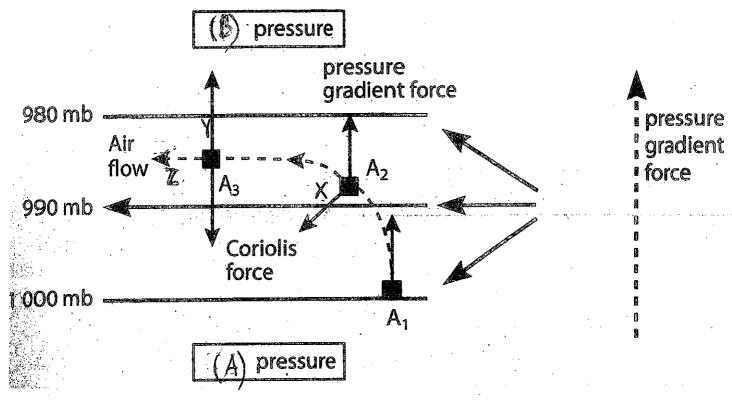


FIGURE 1.3 - SYNOPTIC WEATHER MAP

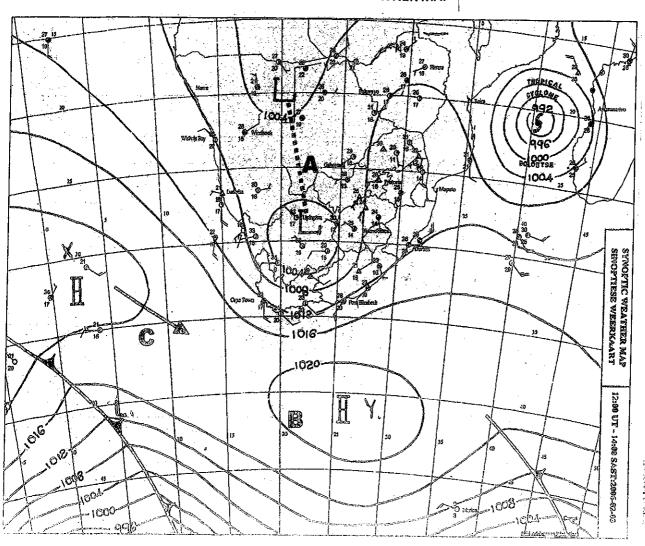




FIGURE 1.4 – ISOBAR MAP

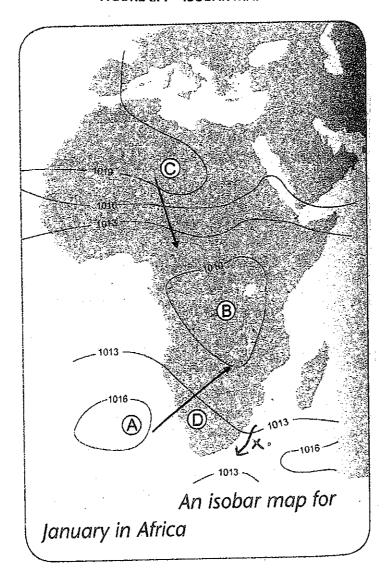
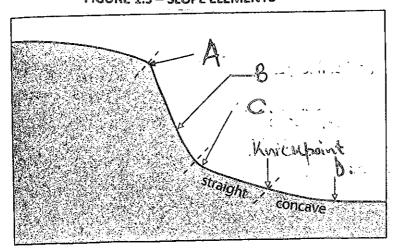


FIGURE 1.5 - SLOPE ELEMENTS



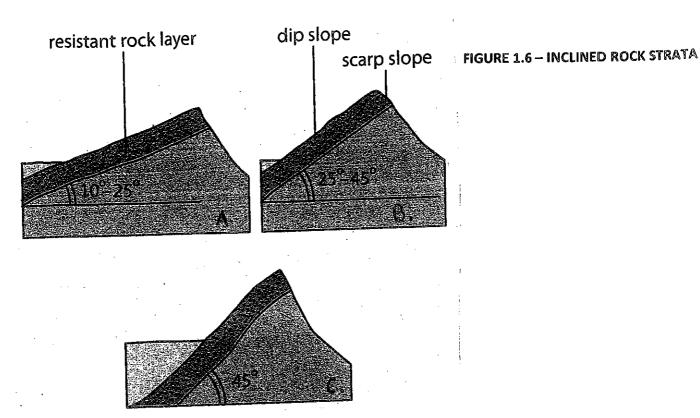
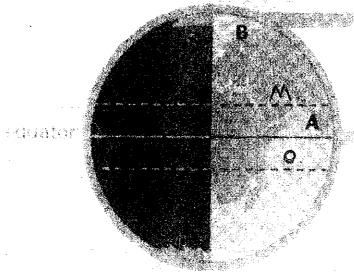


FIGURE 2.1 – EFFECT OF LATITUDE ON TEMPERATURE

NP - North Pole



SP - South Pole

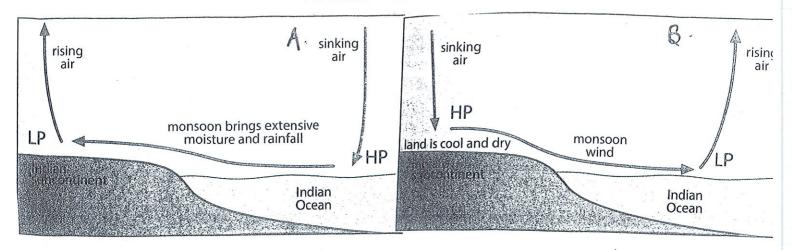


FIGURE 2.4 - CASE STUDY -DROUGHT

Drought report for South Africa: Drought conditions persist

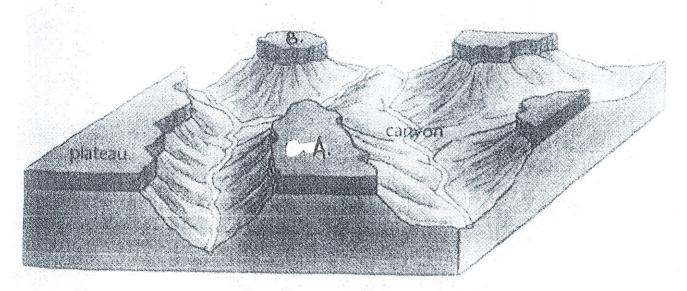
20 January 2010

The Department of Water Affairs has prioritised support for parts of the country affected by the prevailing drought conditions due to low rainfall during 2009. The conditions started around March 2008. Having received an annual rainfall of 477 mm in the last year, which accounts for only 63 per cent of the areas' mean annual precipitation, urgent measures had to be put in place to deal with the water shortages: severe water restrictions were introduced, sewage water is being redirected to the purification plants, and seawater is being desalinated to increase supply.

In addition, the water storage levels for this area are well below average and are declining further. The Garden Route Dam: Storage is 30%, which is 70% below the median storage. The Wolwedans Dam: Storage is 37,1%, which is 60% below the median storage and also gradually declining.

Water conservation and demand management, especially in these drought-stricken areas, is to be focused on as a means to sustaining supply. Consumer behaviour in the use of water can go a long way in addressing the issue of water provision to the communities. Water conservation and demand management initiatives have been ongoing and these will be intensified.

FIGURE 2.5



Chapman's Peak Drive

Chapman's Peak Drive is described by many tourist books as one of the most scenic drives in the world. It was built between 1915 and 1922. It connects Hout Bay and Noordhoek and is cut into the side of the mountain range on the Atlantic coastline. It is 9 km in length with 114 curves along the picturesque road. Because of the spectacular views, it is a popular tourist attraction.

Chapman's Peak Drive was closed in late 1999 due to a fatal rockfall. Engineers set about building rockfall protection measures which included catch fences building half tunnels, slope stabilisation and canopy structures. The long term project of upgrading Chapman's Peak Drive resulted in the engineering company involved receiving an international excellence award for rockfall protection in 2004. The road was reopened as a toll road, but it was closed again in 2008 for a number of months as a result of the identification of risk areas on the mountain slopes.

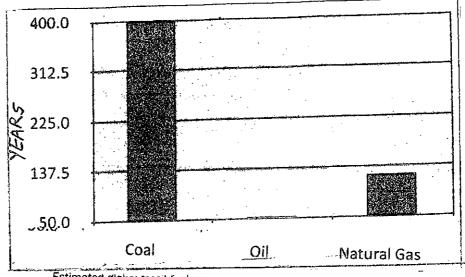
There are a number of safety nets along the road to catch the falling rocks. These heavy duty safety nets are the most powerful in the world and are designed to catch a 30-ton boulder. The closure of the road at various times impacts on the economy of both the tourism sector and the local residents.



JRE 3.3 – CARTOON ON DEVELOPMENT

FIGURE 3.4 - FOSSIL FUEL RESERVES

Study the graph below which shows the world's estimated fossil fuel reserves.



Estimated global tossil fuel reserves

Comparison of o	levelopment indica	itors
Development indicator	United Kingdom	Ethiopia
Life expectancy	79 years	42 years
Ratio of doctors to people	1:455	1:32 000
Literacy rate	99%	41%
Nutrition	3 100 calories per person per day	1 800 calories per person per day
Access to clean water	100%	27%
GNP per capita	US\$21 410	US\$100
Birth rate	12 per 1 000	40 per 1 000
Death rate	10 per 1 000	19 per 1 000
Infant mortality rate (IMR)	5 per 1 000	110 per 1 000
Natural increase	0,3%	2,5%

Table 5.13 Differences in development between the UK and Ethiopia

FIGURE 3.5 - TABLE DEVELOPMENT INDICATORS

FIGURE 3.6 – NEWSPAPER ARTICLE SOLAR POWER CHANGES VILLAGES

SOLAR POWER CHANGES VILLAGES

The days of cutting firewood for cooking and heating water are over for about 80 Xholobeni villagers in Mbizana who received solar panels and geysers from the Eastern Cape rural development and agrarian reform department.

The project was started earlier this year by former MEC Zoleka Capa as a means providing alternative energy to villagers after it was become known that power utility Eskom had no immediate plans to electrify the village.

The one-kilowatt solar panels provide the 80 households with enough energy for lights and to connect other household appliances and the 100-litre solar geyser ensure warm bath water daily.

(Source: Daily Dispatch (28/07/2014) - Lulamile Fanix

FIGURE 4.3 - COMMUNITY BASED DEVELOPMENT

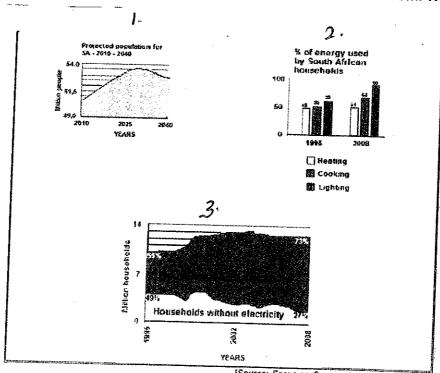
Umsizi has established, together with Northpoint City Church, a Non-Profit Organisation called Impophomo, which focuses on the socio-economic development of impoverished communities.

Community development is at the heart of Umsizi, and as a result, we have long standing partnerships with the leading experts in the field of <u>rural development</u>. Within community development projects the aim is to significantly improve the well-being of households within rural communities. Projects are designed to be community specific so that upon implementation the positive impacts on the ground can be <u>sustainable</u> and widespread.

Agricultural crop production training is key to community development, and has been presented to many households in villages throughout Southern Africa, with an open invitation for any and all interested community members to attend. The training covers several modules on homestead agriculture and food security, including nutrition, soil fertility, crop rotation, rainwater harvesting and produce, marketing, etc.

[Source: http://umsizi.co.za/community-development]

FIGURE 4.4 – GRAPHS ABOUT SOUTH AFRICA'S ENERGY CONSUMPTION

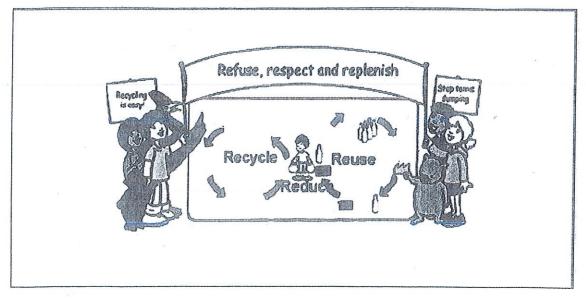


ISource: Focus on Geography-promotion copy:

FIGURE 4.5 – EFFECTS OF AID ON THE DEVELOPMENT OF THIRD WORLD COUNTRIES



FIGURE 4.6 - REFUSE, RESPECT AND REPLENISH



	ノ
- change on wind direction - che to backwigt ver	nin
1.3.5.1 2700	2=4
13.5.2. 6°C	
1 13.5.3. 5 Kanety hr.	,
1.3.5.4. South westerly. (4X1=4	F)
1.4.1. Convergence. (1))
1.42. C will be stronger - isobams are closer to each other, pressure graduent steeper-wor'd spead higher.	
each other, pressure graduent steeper-wind speed	ما
brigher.	z)
1.43.1 Warm Wozambique current C	(i)
1.4.3.2. Warm current - navin, moist aur will be	
advected onto the east coast of South Aprica, air	• •
will rise, cool, condense and form rown. This are	
. will receive good rawn's because of a warm ocean a	
144.1. Evergreen porests containing a variety of	
trees and regetation. Dense plant / animal speci	'es
1.4.5. El Nino couses exchagical changes. They have	
an economic impact on pishing and parming	
Since the ocean temperature and rounfull patt	lerv
ove changing resulting in an increased number of changints - driver than named	
number of droughts - driver than named	
conditions - loss of eveps - famine - food	
in security is common in Aprica.	
Failing bour fall would result un less grazen	19
land - without supprisent fadder and was	Her
cattle supper.	
the warming associated with the El Minis e encourages the spread of driseases such as malaria. (4x2 = 8	we
encourages the stread of diseases such as),
malaria. (4x2 = 8	<u>'</u>)

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which is at an angle. (2)
1.5.1.2. Topography deals with the build of the land-
1.5.1.2. Jopography deals with the build of the land- steep, gentle, undulating. (2)
1.5.2.1 Crest (A)
1.5.2.2 Talmy (c)
1.5.2.3. Cliff (B)
1.5.2.4. Pediment(D) (4x1=4)
1.5.3. A = 1Crest - nontrer (nounded) stope (1)
D = rediment = conscius. (hallow)
1.5.4. (Cliff) Rock clumbing, hand ghiding, abserting (2x) 1.5.5. The bediment (slobe) form angle slobe
1.5.5. The pediment (slope D) I low aughe slope
at the frost of a hill, merges with the valler
ploor - usually has fertile soil which is good
for farming - (diaterial deposited from the top part
for farming - (diaterial deposited from the top part of slope) Minimal soil ension - due to gentle?
gradient of land.
(15)
1.6.1.1. Honzontal layers that tilt (slout) due to constal forces.
anistal forces.
1.6.1.2. The steep stope of the landform such as a cuest
1.6.1.3. The gradual (gentle) stope of the landform
1.6.1.2. The steep stope of the landform such as a cuest 1.6.1.3. The gradual (gentle) stope of the landform found in fur. 1.6.2. A - Cueston fridge Straton (in
B - Homochial ridge Strata (1
C - Hogsback. (3x1=3)
163. A ruesta is a ridge formed by gently tilted strata as a result of erosion of week
tilted strata as a result of erosion of nock
layers wichnied in a single direction. Has
alternating beds of differing hardness. (3)
1.6.4. A - cuestar has an langue of dip less
than 250 (gently tilted rock strata)
C- Hogsback - has an angle of disposed steephy titled rock)
of caper 10000 10 Colonia in the 1000

165. Ruesta plains - flat - offer great opportunities for farming and eventing towns, in grastmeture For recreation - popular tourist attraction. The wester surrounding the Pan's Basin have the scarp (steep) slopes for used to protect them against advancing army troops during the world wours (sefence purposes)

Mi'nin' q de salt from Cuesta doine - houisiana USA (2x 2=4)

[75]

Μ 2.1.1

23/20 5 2.1.2

2.13

less in tensely, larger 21.4

es higuer 2-1-5

scattering. 2-1-6

(7×1=7)

2.2.1 Mass movement

2 · 2 · Z soil creep

lan distide

son fluction 2.24

2.2.5 slump.

Mudylows 2.26

2-2-7, hourgeds.

7.2.8. gabiours.

Derived prom the avabic word meaning (2) "season" - refers to a complete reversal of wind A - summer monsoon - sea breeze (air movi **ጋ** ፡3. 2 · B - winter monsoon

(land breeze-air morning from land to sen!

Downloaded from Stanmorephysics.com 2.33. High pressure cell over the sea - air moves as the SE trades across the equator towards the law preson cell on land. As it crosses the equation it is deflected to the right (convolis force) mit. - arrives in India as a moisture lades picoloceans picus up monisture from ocean , coots, condenses, brings widespread R/EUI. to Land. 234. I The arrival of the South West Monsoon breaks the dry rouditions, the waps are watered especially rice paddies - food security. However, the rowi can cause widespread frooding, communication lines disripted, infrastructural damage uluch ean cost huge sums of money to repair, homes destroyed. Lives lost, enosion of soil, plants destrayed (3x2=6) H NB. ONE POINT MUST REFER TO THE POSITIVE AND ONE MUST BE A NEGATIVE 2.4.1. Drought is a prolonged period of dry less than 25% of its annual RFall. 2.4.2. lace of ramfall. (low ram pull). (1) 2.4.3. . Severe water restrictions were introduced. - sewage water redirected to pair france Plants - Desabration of sea water. (2x1=2) 2.4.4.1. Famine - shortage of food - food insecunty 8 tarrior - aleaths. (wops (withvation) Respection of people results in international refugees. carrying capacity of livestock reduced shortage of food for people. industries face mater shortages - millustra production decreases - people placed on Short time. may even face job losses

reduced biodinemity lots of soil evesion - scans landscape. formation of dust bowls. Damage to aquatic and land life. wildfares common-dry conditions is hoss of foreign revenue earned especially by the export of each crops such as maize - GDP is reduced. - Shorteage of food will result in greater in ports - more expensive - imports excees
lead to a regative trade balance in the long Ferm. - less money will be available to uniprove services in our rountry 2.5. simple worter souring techniques at home jojó tanks, reuse of water in gardens, frix leaking taps., placing a brick in the toilet distern to reduce its capacity, short showers.

2.5.1. A congon is a large area of deep steep-sick muer valleys that from m' landforms associated with honizontal rock strata.

2.5.2. The how southed neck strata occur as alternative layers of hand and soft rock. Hard nock layer will be easily removed by the agents of everious. Campons therefore have a stepped like appearance with hard rock layer standing out as vertical cliffs, soft rock forming gentle stepes.

(2)

Has a rab = (1) Butte pped tableleurd (Cap of resulting Has a rab = (1)

Downloaded from Stanmorephysics.com Canyon Landscopes. Canyons form transport barriers as it is difficult for people to cross these steep valleys. En qui eens experience problems when buildur's roads, railway lines and other means of communical acress carryours Spectabular scenent - major tourist attractions eq. the Ground Courgely us A , Blyde River Courger rin L'mpepo - S.A. U such areas. Opportunities for people luring near Hydro Electric bower can be generated where water full down the steep courgen stopes Campons/gardes used for recreochional activitie eg well clumbrig abserting. Many are also protected nature reserves leatourithm Often have Kwistorical significance - show ear signs of human inhabitation. NO , MUST AT LEAST ONE ADVANTAGE AND THE DISADVANTAGE 2.6.1.1. When weathered material and nock move down a state because of gravity. 2.6.1.2. Fragments of weie Uthat Slide, tophe or fall of all eligs to collect on the talus (gentler state) "below. Falling rocks caused by roun's - dislogunia of stones I nockys. 2.6.3. "... due to a patal rocufail 2.6.4. safety nets along the road to carely (i)

faller of wells rately pences stope stabilisation building of half tunnels. 26.5. Cullpurais Pear is a attraction'- with willions of visitors will result in less foreign revenue tourists pay gate fees 5 less mouei - Also many locals use this drive as a thoroughfar to get to work - clasure will result in them having to taking longer routes to workaffect productivity - Craft sold outside the peak will not supported - com result in job losses (self employed people without an income strain on the economy. com (15)