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GEOGRAPHY

GRADE 12: REVISION STUDY GUIDE

WINTER CLASSES

Topic1

CLIMATOLOGY

Topic2GEOMORPHOLOGY

Topic3

SETTLEMENT GEOGRAPHY

JENN TRAINING & CONSULTANCY: GRADE 12 WINTER CLASSES

Climate and Weather

	HIGH PRESSURE	LOW PRESSURE
Names	Anticyclone	Cyclones
Characteristic s	High pressure with sinking air. Rotates clockwise in Northern Hemisphere, and Anticlockwise in Southern Hemisphere	Low pressure with rising/ ascending air. Rotates clockwise in S.H and anticlockwise in Hemisphere
VVeather conditions	Dry warmer weather. Temperature increase with 1°c for every 100m	Wetter cooler weather. Moist air decrease its temperature 1°c for every 100m

General characteristics of Midlatitude cyclone

- Other names: Frontal depression, temperate cyclone, extra tropical cyclone
- Midlatitude cyclone are found between40⁰-60^o N and S Hemisphere
- These cyclones occurs between 30°-60° N and S
- Midlatitude cyclones move from West to east (driven/pushed by Westerlies)
- Occurs all year round in both hemispheres; affects South Africa in winter
- Associated with warm front, warm sector, cold front, cold sector
- Weather conditions associated with a cold front : overcast, low temperatures, strong winds, heavy rain (Cumulonimbus clouds)
- Western side of continents are affected by mid-latitudes cyclones

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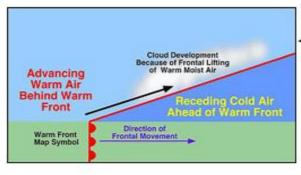
How Midlatitude cyclone forms

- There must be temperature contrast between westerlies and polar easterlies to form polar front.
- There must be disturbance in Jet stream which pushes cold air into warm air.
- A low pressure develops when warm air rises above cold air as driven by westerlies.

Conditions necessary for development of Midlatitude cyclone

- Difference between land and sea temperature
- Shape of coastline
- Acceleration of any of air masses
- ❖Mountain ranges

MID LATTITUDE CYCLONES: CONCEPTS

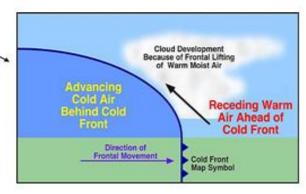


WARM FRONT OCCLUSION

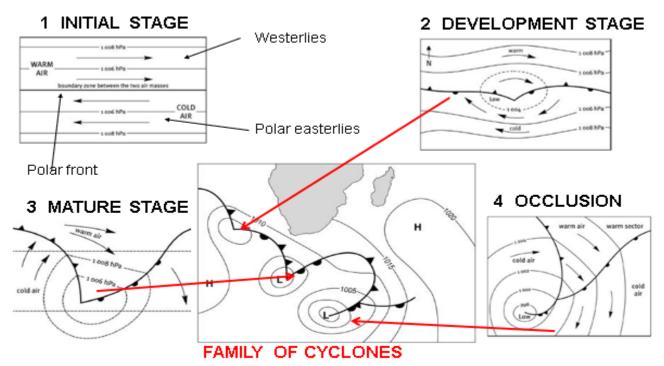
- When the coldest air in the Midlatitude cyclone is ahead of warm front.
 - Cold front will be lifted up along warm front
 - Rising air is cooled. Condenses and forms clouds
 - The results are rainfall and are associated with warm front

COLD FRONT OCCLUSION

- Occurs when coldest air is behind cold front
- The warm front will be lifted along the cold front
- Rising air is cooled. Condenses and forms clouds
- The results are rainfall and are associated with cold front

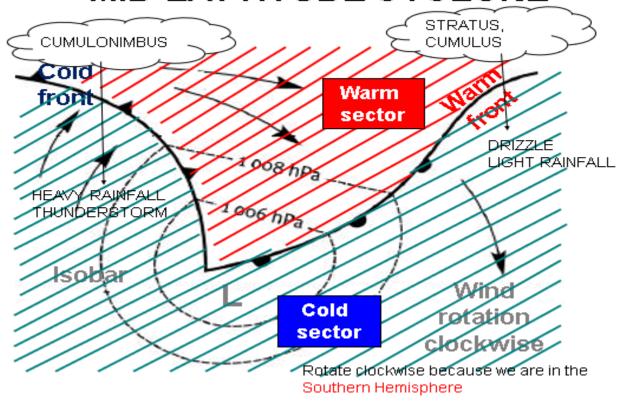


MIDLATTITUDE CYCLONE: STAGES

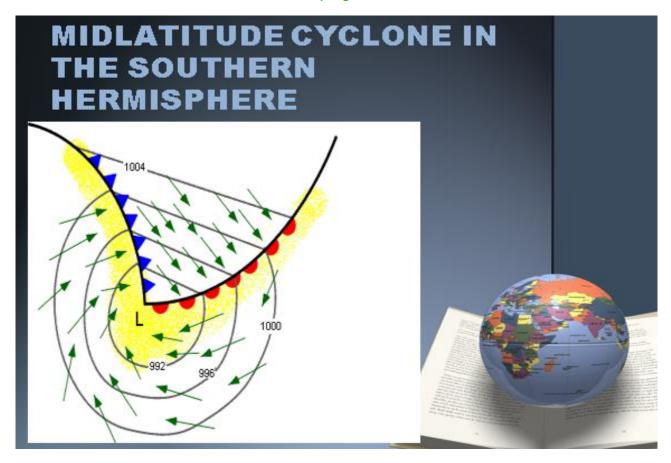


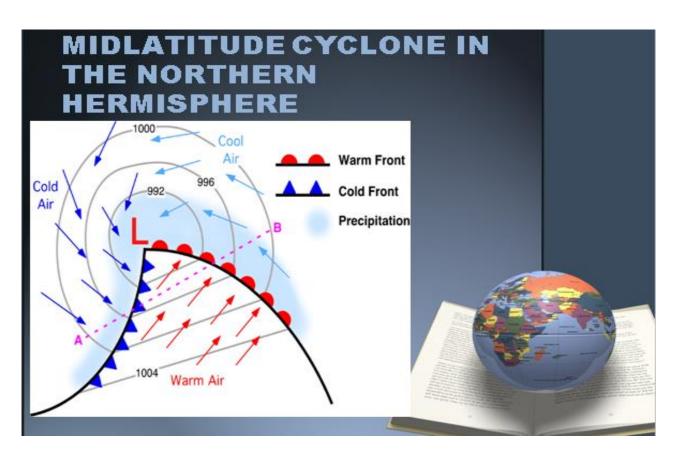
Midlatitude travels from West to East: with oldest on far South east and youngest on North West. They may follow each other as 3-5 members

MID-LATTITUDE CYCLONE



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Weather pattern associated with fronts:

Cold front weather	Warm front weather	Warm sector weather	
1.Wind backs(West to South West)	1.Wind changes from northwest to west	1.Pressure drops	
2.Strong winds with low temperatures	2.More humidity with high temperatures	2.Has warm less dense air	
3. Heavy rain with cumulonimbus clouds	3.Light rain with nimbostratus clouds	3.Associated with stratocumulus, altostratus clouds.	
Pressure decreases as front approaches but rise as cold sector arrives	4.Decrease in air pressure		
IMPACT OF MIDLATITUDE ON	HUMANS AND ENVIRONMENT		
 Strong winds from thunderstone people (Negative Impact) 	orms, hail, and some snow can de	estroy infrastructure and kill	
	shipping and aeroplanes cannot	operate and out door activities(
 □ Heavy rain in the Western Cape leads to poor visibility and accidents (Negative Impact) □ Very cold conditions leading to power cuts as people will be using more power to warm 			

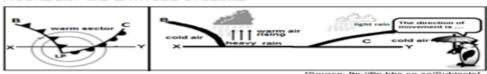
MIDLATITUDE CYCLONE QUESTIONS

FEBRUARY/ MARCH 2015

themselves

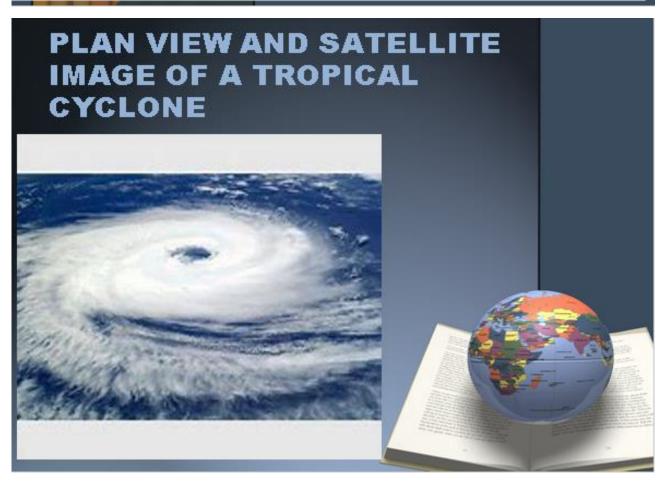
- 2.3 Study the plan view of and the cross-section through a mid-latitude cyclone in FIGURE 2.3.
 - 2.3.1 In which general direction does this cyclone move in the Southern
 Hemisphere? (1 x 1) (1)
 - 2.3.2 Give TWO pieces of evidence to support the statement that the cyclone is in its mature stage. (2 x 2) (4)
 - 2.3.3 Why does the warm front (C) have very little influence on the
 - weather of South Africa? (1 x 2) (2)
 - 2.3.4 In a paragraph of approximately EIGHT lines, explain the process of occlusion and associated weather conditions of a mid-latitude cyclone. (4 x 2)

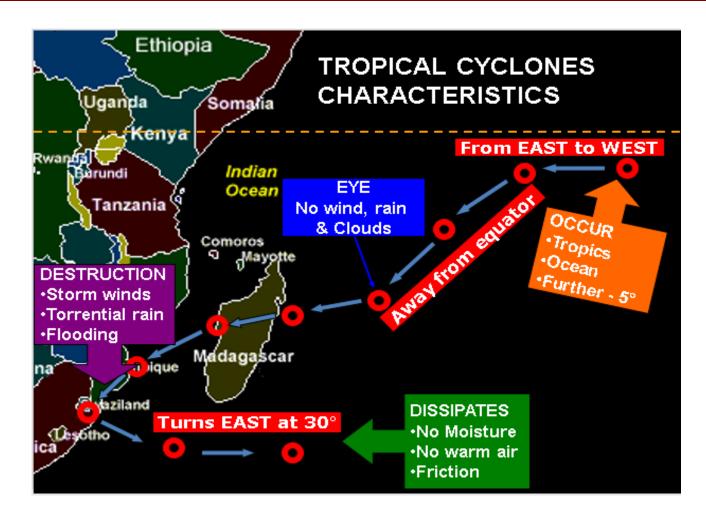
FIGURE 2.3: MID-LATITUDE CYCLONE



(8)

TROPICAL CYCLONES			
	Characteristics	of Tropical cyclone	
Other names	Typhoon – China/Japan Willy willies – Australia	Cyclone – Indian ocean Hurricane - USA	
Formation	Formed around 5° N and 30°S Hemisphere, and does not occur at equator (0°) because there is no coriolis force.		
Occurance	Occurs over tropics between 5° to 30° N and S hemisphere		
Movement/ Direction	They travel from East to West driven by Easterly winds		
Season	They occur late summer early autumn		
Areas affected	Eastern side of continents in tropical latitudes		
Weather	Intense thunderstorm, store tropical cyclone with calm (my vortex and the eye(centre of conditions)	
Rotation	Rotate clockwise in Southe Northern hemisphere	rn Hemisphere and anti-clockwise in	
Life Span	They lasts a week. (4-7 day	ys) and diameter of 200-750km	





Factors necessary for FORMATION of tropical cyclone

- ◆ Occurs in a low pressure area, between 50 300 N and S equator
- Associated with heat required for uplift of air
- Occur over oceans with temp above 27°C
- Do not occur at equator due to lack of coriolis force.

Characteristics

- Occur over warm oceans with 27°C temp
- Do not occur at 0° to 4°C
- Move from east to west
- They die when they move inland

Areas where tropical cyclone forms:

- □ Over warm oceans, between 5° 30°
- Where there is uplift of air with temp above 27°C

Reason

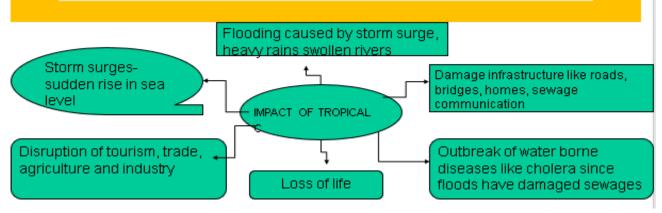
- For constant supply of moisture
- No coriolis force
- They are driven by trade winds called tropical easterlies
- The heat is removed, friction and moisture is cut off.

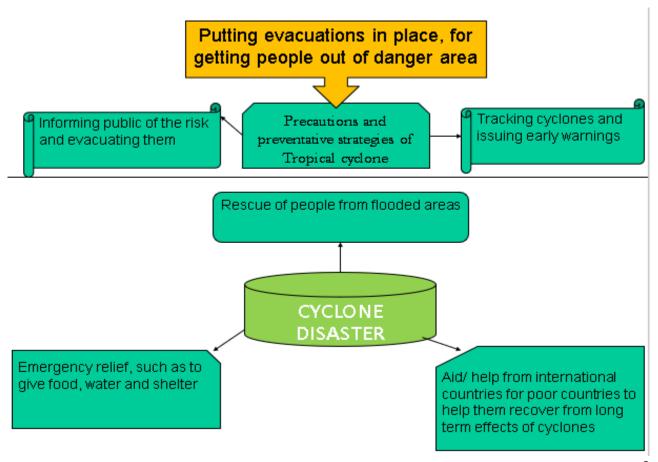
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ASSOCIATED WÉATHER PATTERNS OF TROPICAL CYCLONE

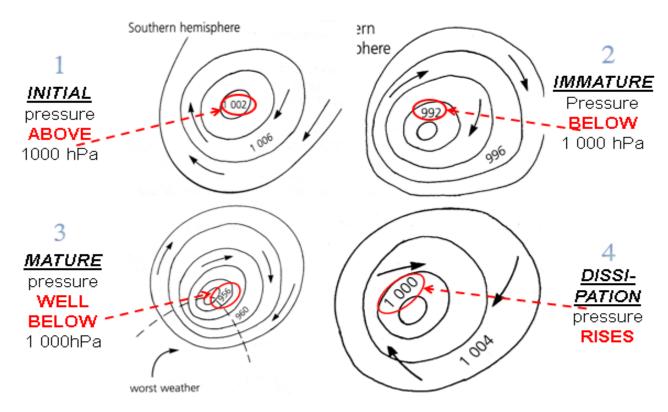
- They are associated with dangerous weather conditions, with worse conditions on mature stage
- 2. They destroy property, environment and loss of life
- Very high wind speed and cumulonimbus clouds around the eye. (Heavy rainfall/torrential rain)
- 4. Storm surges in coastal areas with rise in sea level by many meters

IMPACT OF TROPICAL CYCLONE ON HUMANS AND ENVIRONMENT

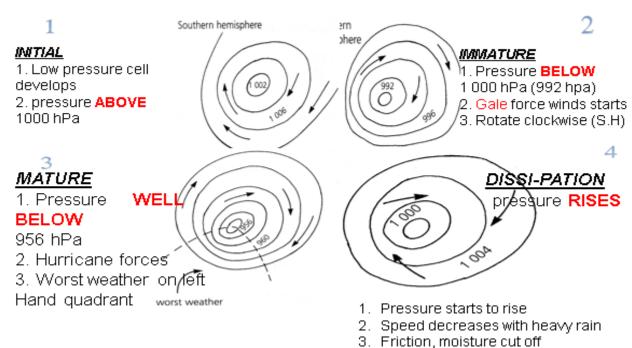


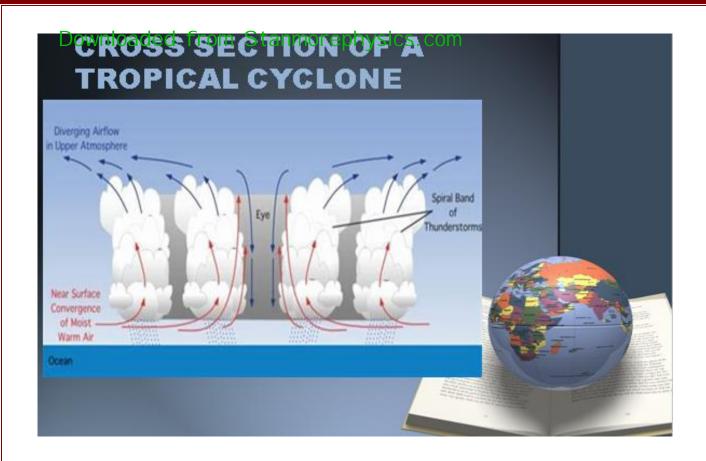


TROPICAL CYCLONE: STAGES



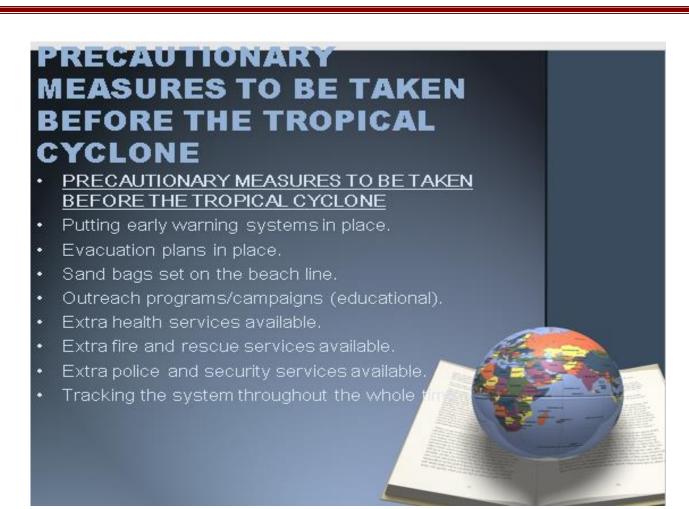
TROPICAL CYCLONE: STAGES

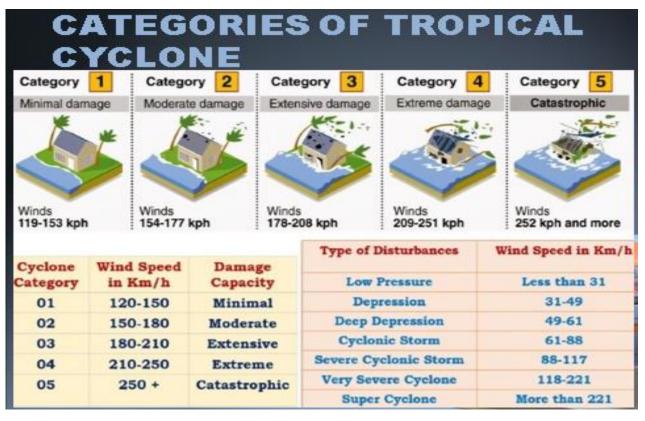




IMPACT OF TROPICAL CYCLONES ON HUMANS AND THE ENVIRONMENT

HUMANS	ENVIRONMENT
Loss of lives	Storm surges – sudden rise in sea levels
Outbreak of waterborne diseases like cholera since floods have damaged sewages.	Flooding caused by storm surge, heavy rains swollen rivers.
Disruption of tourism, trade, agriculture and industry.	Damage infrastructure like roads, bridges, homes, and sewage communication.
Loss of profit to farmers.	Fertile soil and crops are eroded away
Powerlines are uproofed.	Trees are uprooted.
Food insecurity (less availability of food).	Destruction to the marine biodiversity.
Unemployment increases and exports decrease (decrease in the GDP of the country).	Destruction to the eco-system of the affected area.

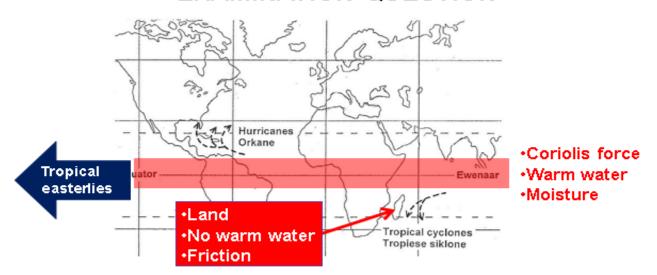






- MANAGEMENT STRATEGIES AFTER THE SYSTEM HAS TAKEN PLACE
- NB:
- DEVELOPED COUNTRIES CAN DO THE FOLLOWING IN A VERY SHORT PERIOD OF TIME, DUE TO SUFFICIENT FUNDS.
- DEVELOPING COUNTRIES WILL TAKE MUCH LONGER TO PERFORM THE FOLLOWING STRATEGIES, DUE TO INSUFFICIENT FUNDS.
- Placement of people in the refugee camps/temporary shelters.
- Distribution of medication to casualties.
- Distribution of clean water.
- Distribution of sanitary towels.
- Availability of sanitation.
- Health officials (Doctors and nurses) vis campsites.
- Distribution of food and clothes.

EXAMINATION QUESTION



- 1 Give ONE similarity between Hurricanes and Tropical cyclones on the map.
- 2 Explain the point of origin of both hurricanes and tropical cyclones on the map.
- 3 Why do these cyclones move from east to west?
- 4 Why do tropical cyclones weaken as they move over Madagascar.
- 5 Why is the impact of tropical cyclones more severe in developing countries?

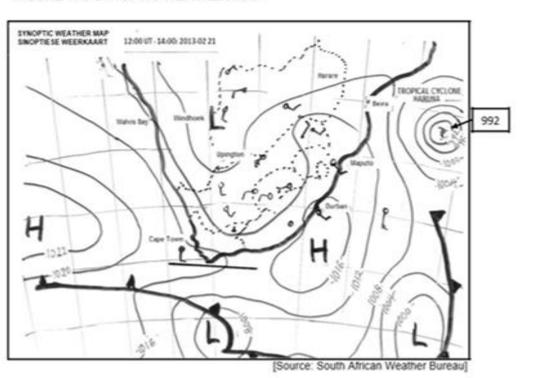
TROPICAL CYCLONE QUESTIONS

FEBRUARY/MARCH 2015

- 1.4 Study FIGURE 1.4 which shows a synoptic weather map.
 - 1.4.1 Does the map show a typical summer or winter condition? (1 x 1) (1)
 - 1.4.2 Draw the symbol present on the synoptic weather map indicating the eye of Tropical Cyclone Haruna. (1 x 1) (1)
 - 1.4.3 What evidence suggests that Tropical Cyclone Haruna is in its mature stage? (1 x 2) (2)
 - 1.4.4 Describe the weather associated with the eye of the cyclone.(2 x 2) (4)
 - 1.4.5 How do warm oceans contribute to the development of these cyclones? (1 x 2) (2)
 - 1.4.6 Suggest TWO precautions the people of Maputo need to take within the next 24 hours. (2 x 2) (4)

SYNOPTIC MAP

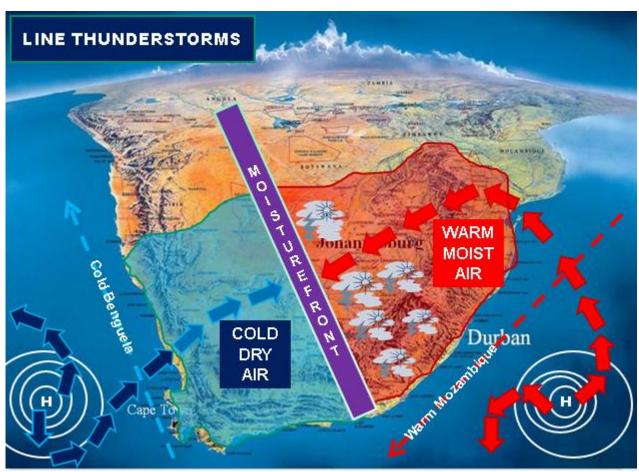
FIGURE 1.4: SYNOPTIC WEATHER MAP





REGIONAL CLIMATE

- Line thunderstorms
- Berg winds



Moisture front / Line thunderstorm

Atlantic ocean

- 1. Cold air mass that blows from S.W. direction
- This air mass comes from Atlantic ocean
- 3. It is influenced by Cold Benguela current
- 4. This air mass is pushed by South Atlantic H.P. / anticyclone towards the interior

Indian ocean

- 1. Warm moist air mass that blows from N.E. direction
- 2. This air mass comes from Indian ocean
- It is influenced by Mozambique ocean current
- 4. This air mass is pushed by South Indian H.P./ anticyclone towards the interior

These two air masses meet at trough axis. Warm air is forced to rise and cold air wedges underneath. A line thunderstorm develops along moisture front with heavy rainfall associated with cumulonimbus clouds

Coastal low and Berg Winds

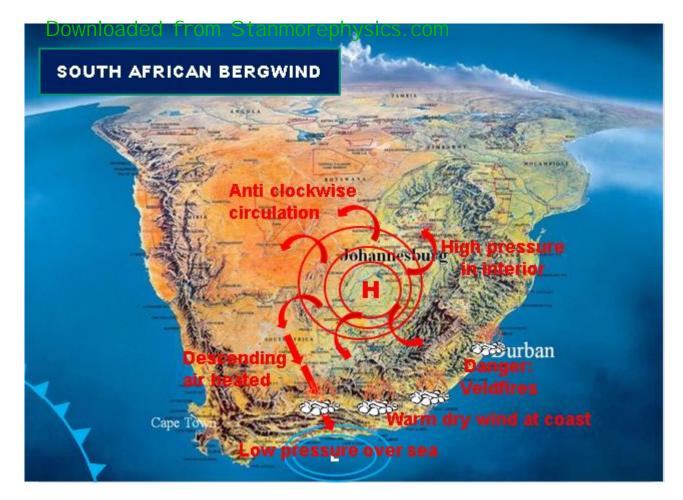
Coastal low pressure

that often travel ahead of cold front

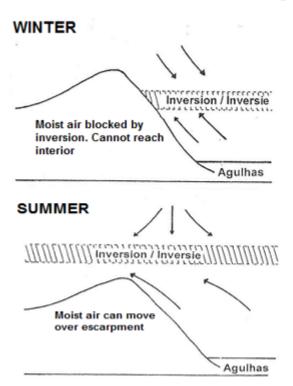
- B. They form off the west coast and travel east along the coast and change coastal weather.
- C. Rotate clockwise, with onshore winds on west that brings rain and fog and offshore winds on east with warm dry conditions

Berg winds

- A. These are low pressure cells A. Berg winds are hot dry winds that blows from the interior towards the coast and are warmed up adiabatically as they descend: 10C/100m
 - B. High pressure develops in interior and Low pressure over the coast
 - C. Temperature drops fast by the cold air behind the front, and difference in pressure btw interior and coast ceases.
 - D. Season: They occur in winter
 - E. Results of berg winds: Veld fires
 - F. Solutions: Fire fighters

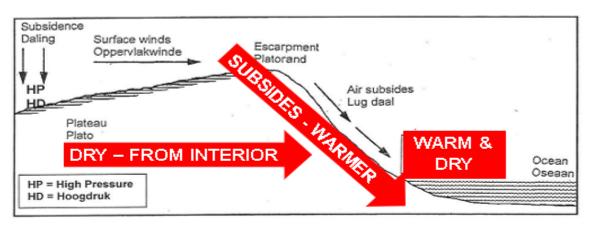


Role of inversion layer/ KALAHARI H.P

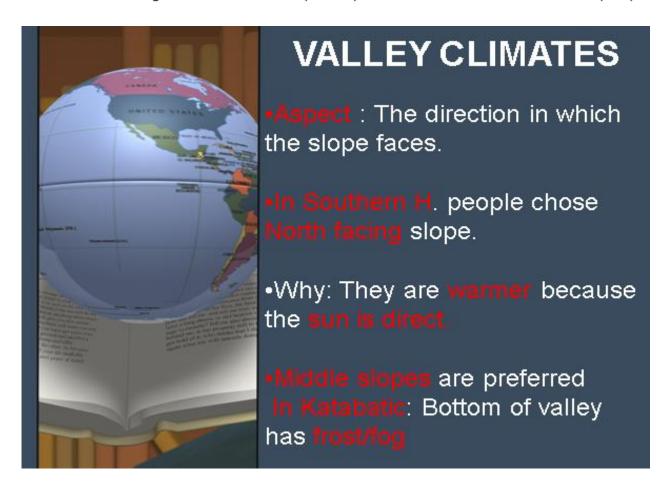


- During winter the KALAHARI H.P is dominant in the interior (strong).
- 2. The inversion layer is below the escarpment
- Moisture from Indian ocean driven by Aghulas and Mozambique cannot reach the interior.
- The results are DRY conditions in the interior in WINTER
 - During summer the KALAHARI is weak and shifts to N.E. direction
 - The inversion layer is above the escarpment
 - Moisture from the Indian ocean driven by Aghulas and Mozambique current can reach the interior.
 - The results are rainfall in the interior in Summer

EXAMINATION QUESTION



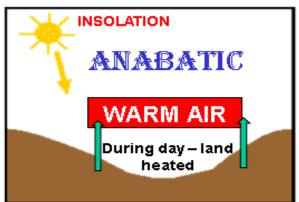
- 1 Name the high pressure cell visible on the diagram. (1x1)
- 2 During what season do berg winds affect the weather of South Africa? (1x1).
- 3 How does the wind in the diagram affect the weather along the coast of SA? (2x1))
- 4 Explain why these weather conditions mentioned in question 3 occur. (1x1)
- 5 Name the environmental hazard associated with berg wind conditions. (1x1)
- 6 How are berg winds terminated (ended)? (2x2)



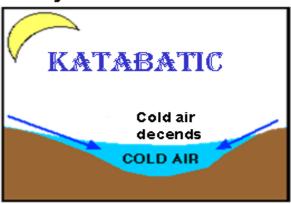
Downloaded from Stanmoraphysics ASPECT (SH)



Valley winds: are winds that blow along the length of the valley.



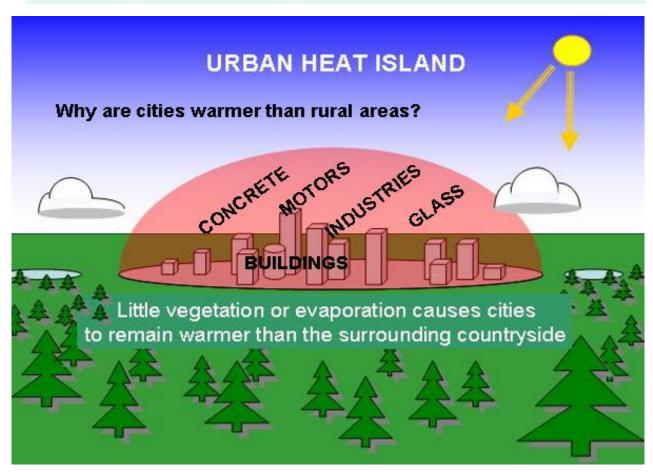
- 1. Anabatic winds occurs during the DAY
- In the morning the sun heats earth surface
- The surrounding air is warmed up and forced to rise
- The wind blows UPSLOPE and is known as Anabatic wind



- At night the air lose energy through terrestrial radiation and become cold and dense hence SINKS.
- Slopes are cooled down and air in contact also cools and SINKS.
- Katabatic winds occurs at NIGHT.
- The wind blows DOWNSLOPE and are known as Katabatic winds.

Urban Climates Difference between Rural and Urban climates

Element	Urban versus Rural	Reason
Temperature	Cities are warmer	More artificial, concrete, tarred roads less water bodies, pollution and less vegetation
Wind speed	Less speed in cities	Building act as windbreakers
Humidity	Less in cities	Less plants thus less evapotranspiration Less water bodies due to drains More evaporation due to artificials
Clouds, fog and precipitation	More clouds , fog, smog in urban areas	More dust in cities act as hygroscopic nuclei and promotes condenstaion
Sunshine	Less in cities	High buildings block incoming sun rays and more shadow zone



Downloaded from Stanmorephysics.com Urban heat Island: High temperature in cities than the surrounding rural areas

Causes of Urban Heat Island

- Tall building which traps heat
- 2. Less vegetation that releases oxygen that cools city.
- 3. Air pollution that traps heat, as carbon dioxide traps long wave radiation
- 4. Artificials like concrete, tarred roads, pavements
- Traffic congestion

Solutions/strategies to reduce Urban Heat Island

- 1. Plant on roof tops
- 2. Plant more vegetation
- 3. Use synchronised robots
- Flexi business times
- Use public transport

Effects of urban heat Island:

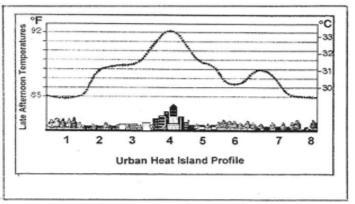
Positive effects:

- 1. Less heating is required in cold places
- Snowfall is reduced and roads are safer.
- More rainfall and condensation.

Negative effects:

- a) More air conditioners which uses more energy
- b) High temperature can lead to stroke, discomfort to people

EXAMINATION QUESTION

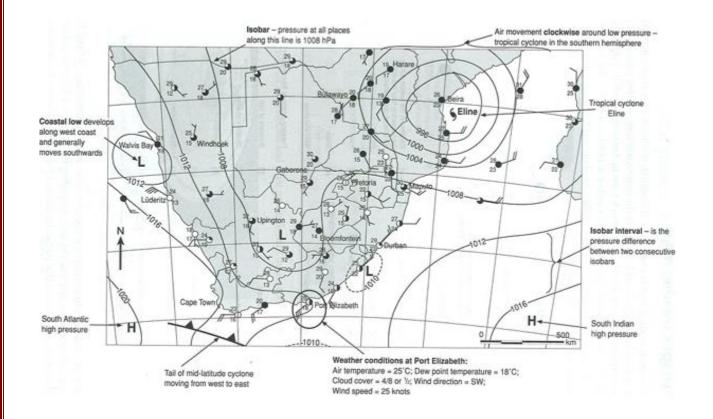


- 1 Rural
- 2 Suburban Residential
- 3 Commercial
- 4 Downtown
- 5 Urban Residential 6 - Park
- 7 Suburban Residential
- 8 Rural Farmland



- 1 What is a heat island?
- 2 Which part of the city is experiencing the highest temperature?
- 3 How have peoples lives been changed by heat islands.
- Whet can be done to reduce high temperatures in cities?

SYNOPTIC WEATHER MAPS



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GEOMORPHOLOGY

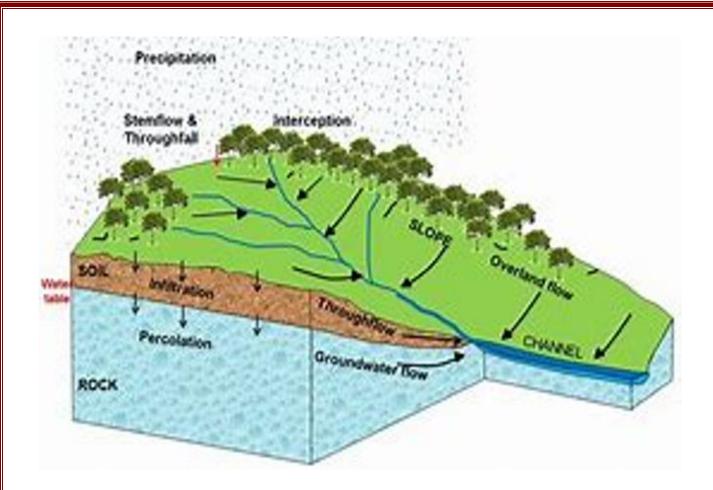


Concepts: Very important

CONCEPT	DEFINITION / EXPLAIN
Drainage Basin	Total area drained by river system.
Catchment	The area that feeds water into the river
Watershed	High lying area / divide / boundary between two rivers.
Interfluve	High lying area / divide / boundary between two tributaries.
Confluence	Point where two rivers meet.
Source	Where a river starts.
River mouth	Where river ends.
Surface run off	Process where water runs on top of earth surface.
Ground water	Water found underground
Water table	Top part of saturated / underground water.

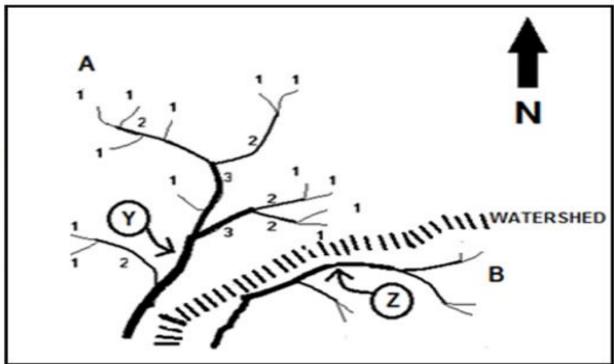
FACTORS INFLUENCING SURFACE RUN OFF AND INFILTRATION

- Factors influencing surface run off and infiltration:
- Relief: Steep slope more surface run off and less infiltration.
- Gentle slope more infiltration and less run off.
- Soil type: Thin soil more surface run off and less infiltration.
- Thick soil less surface run off and more infiltration.
- Rocktype: Impermeable and non-porous more surface run off and less infiltration.
- Permeable and porous more infiltration less surface run off.
- Soil moisture: Saturated soil/wet soil morum off and less infiltration.
- Unsaturated soil/dry soil less surface new and more infiltration.
- Vegetation: Little/no vegetation more surface run off



Study	FIGURE 1.5, which is based on drainage basins.		
1.5.1	Define the term drainage basin.	(1 x 1)	(1)
1.5.2	Does drainage basin A (north of the watershed) or drainage (south of the watershed) have the higher drainage density?		(1)
1.5.3	State ONE factor that could have contributed to the high of density of the drainage basin identified in QUESTION 1.5.2.		(2)
1.5.4	Determine the stream order at Z in drainage basin B .	(1 x 2)	(2)
1.5.5	Refer to drainage basin A and state the relationship between order and the:	stream	
	(a) Length of streams	(1 x 2)	(2)
	(b) Number of streams	(1 x 2)	(2)
1.5.6	Evaluate the effect of a prolonged period of drought on the order at point Y in drainage basin A.	stream (2 x 2)	(

FIGURE 1.5: DRAINAGE BASINS

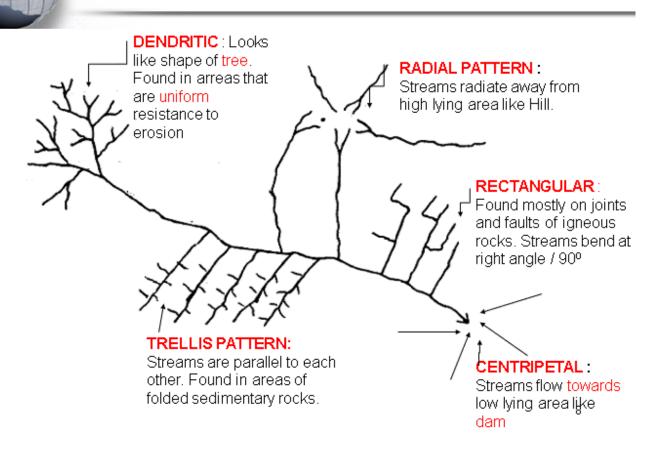


[Source: Examiner's own sketch]

FLUVIAL PROCESSES

- Stream patterns
- Stream piracy
- Longitudinal and les cross p

STREAM PATTERNS



Deranged and Parallel stream pattern



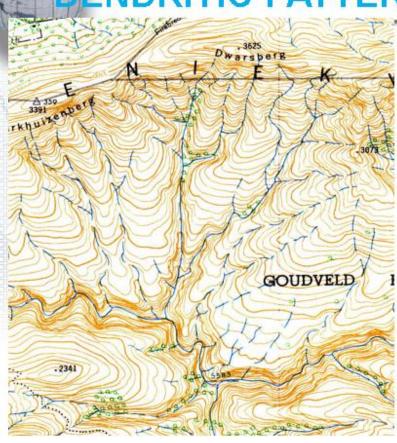
DERANGED / IRREGULAR :

Found on flat or marshy areas and have no definite direction

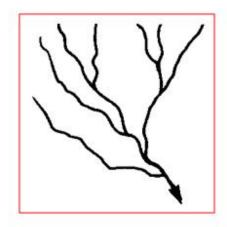
PARALLEL:

Develops on steep slopes where river flows fast.
Tributaries are long and flow next to each other

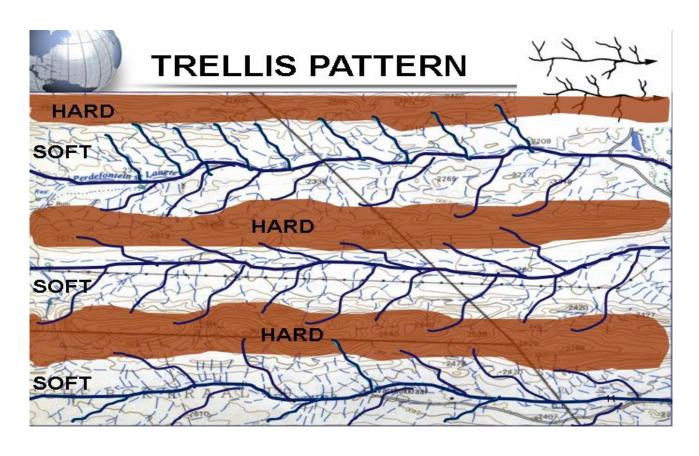
Downloaded from Stanmorephysics.com DENDRITIC PATTERN ON MAP

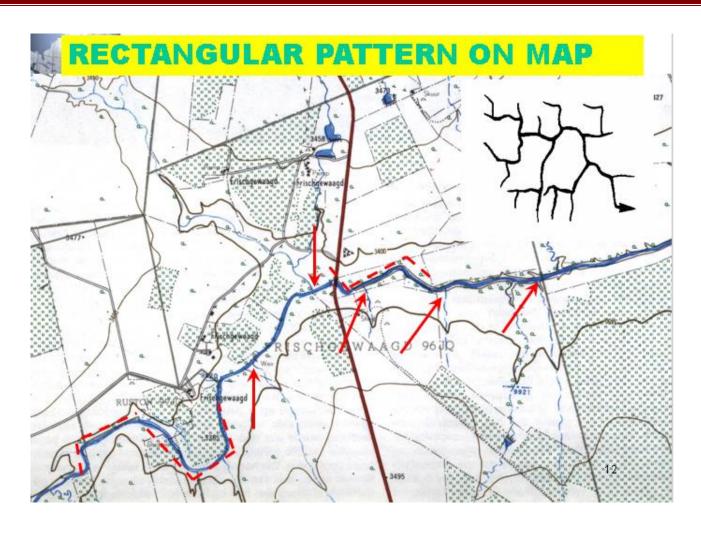


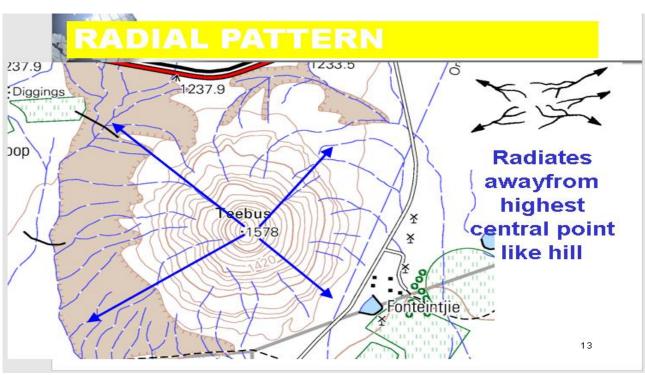
Looks like the branches of a tree



10





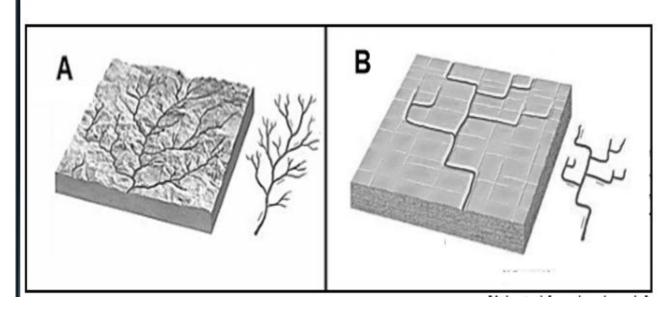


Doutes Tonis anmore physics. com

- NOVEMBER 2016
- 2.5 FIGURE 2.5 is a sketch showing two drainage patterns.
 - 2.5.1 What is a drainage pattern? (1 x 1)
 - 2.5.2 Name drainage patterns **A** and **B**. (2 x 1) (2)
 - 2.5.3 Give evidence from the diagrams to support your choices in QUESTION 2.5.2. (2 x 2)
 - 2.5.4 Compare the underlying rock structures of drainage patterns **A** and **B** in the sketch. (2 x 2) (4)
 - 2.5.5 Draw a simple, labelled plan view sketch of a drainage pattern that will develop in a folded landscape. (2 x 2) (4)

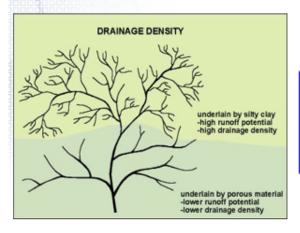
DRAINAGE PATTERN

FIGURE 2.5: DRAINAGE PATTERNS



Factors influencing drainage density

Drainage density: the total length of all streams in the drainage basin divided by the basin area.



Rainfall: High rainfall has more and more run off.

FACTORS INFLUENCING DRAINAGE DENSITY

Relief: Steep lopes have high drainage density and more run off.

Porosity/Permeability: More porous soil has more infiltration therefore less drainage density

Vegetation cover: More vegetation has more infiltration and less drainage density

16

QUESTIONS

FEBRUARY/MARCH 2018

- 2.5 Refer to FIGURE 2.5 on drainage density.
 - 2.5.1 Define the term drainage density.

 (1×1) (1)

- 252 What evidence indicates that **A** has a higher drainage density than B? (1×1)
- 2.5.3 Determine the stream order at point X.

 (1×2)

- 2.5.4 Why will the stream order be higher at point **Y**?

 (1×2)

- (2)
- 2.5.5 Explain the influence of vegetation on drainage density.

 (2×2)

(4)

(1)

(2)

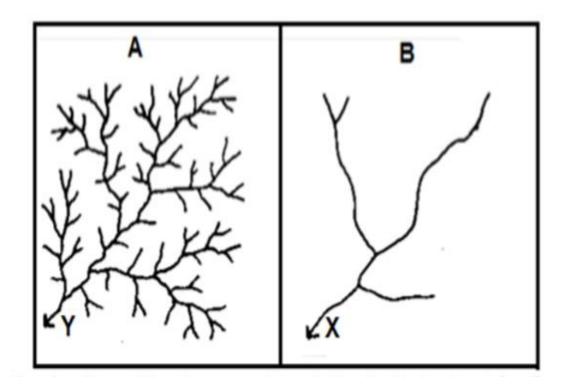
2.5.6 As urban development takes place, the drainage density of the surrounding natural environment will increase. Explain why this is the case.

 (2×2)

(4)

Downloaded from Stanmorenhysics.com DRAINAGE DENSITY

FIGURE 2.5: DRAINAGE DENSITY





Factors influencing infiltration/water table

- 1. Gradient: Gentle slope more infiltration less run off
- 2. Vegetation: more vegetation more infiltration less run off
- 3. Amount of moisture in soil: saturated soil has less infiltration more run off
- 4. Amount and nature of precipitation: Soft rain more infiltration less run off
- Rate of evaporation: More evaporation leads to less infiltration.

River discharge

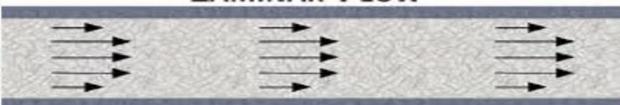
Turbulent Flow

 Found in areas where the river bed is rough/ uneven and has more erosion

Laminar flow

 Found in areas where the river bed is even and smooth with less erosion

LAMINAR FLOW



TURBULENT FLOW



Permanent rivers: They flow all seasons / all throughout the year

Episodic rivers: They flow after heavy rainfall.

TYPES OF RIVERS

Periodic rivers: they flow only during rainy seasons

Exotic rivers: Flow through desert areas since they receive their water from high rainfall areas

32

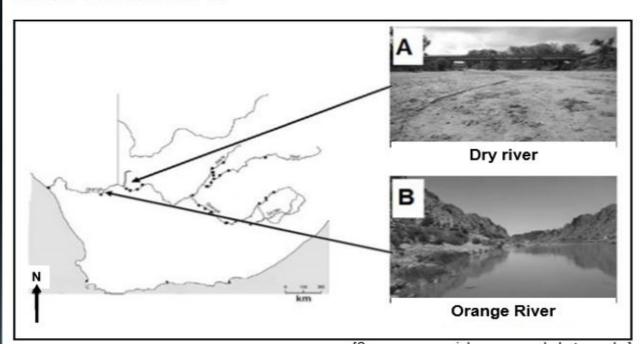
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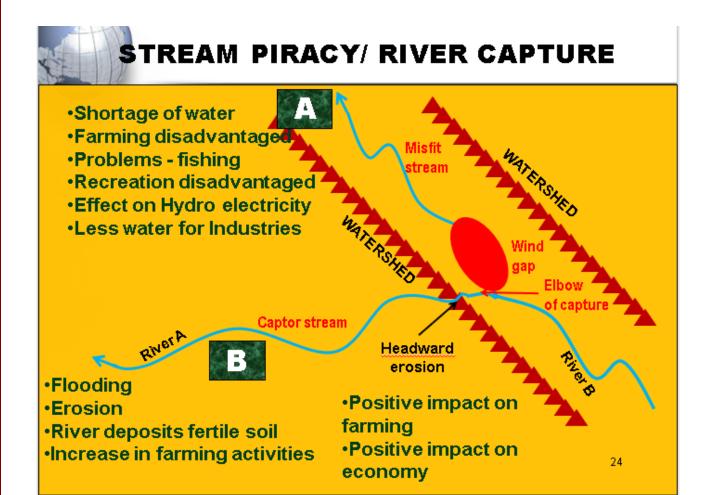
NOVEMBER 2015

- 1.5 Refer to FIGURE 1.5 and answer the questions that follow. Photograph A shows an episodic river in the north-western part of South Africa. Photograph B shows a permanent river in the same area.
 - 1.5.1 (a) What is an episodic river? (1 x 1) (1)
 - (b) Give evidence from the photograph to support your answer to QUESTION 1.5.1(a). (1 x 1)
 - (c) State TWO physical factors that will influence the discharge (stream flow) of this river. (2 x 2) (4)
 - 1.5.2 (a) What do you call a permanent river that flows through dry areas? (1 x 2)
 - (b) Explain why the river in QUESTION 1.5.2(a) flows throughout the year. (2 x 2) (4)
 - (c) State ONE advantage of this river for farmers in the north-western part of South Africa. (1 x 2)

RIVER TYPES

FIGURE 1.5: RIVER TYPES





		JARY/MARCH 2015		
1.5	FIGURE	1.5 is a sketch based on river capture.		
	1.5.1	What is a watershed?	(1 x 1)	(1)
	1.5.2	Why is the watershed not a permanent feature?	(1 x 2)	(2)
	1.5.3	What does it mean when a stream erodes headwards?	(1 x 2)	(2)
	1.5.4	Give TWO reasons why tributary C is energetic.	(2 x 2)	(4)
	1.5.5 Draw a plan view sketch (as seen from above) to show the landscape after river capture has taken place. Label at least TWO features of river capture. (2 x 2)		east TWO	(4)
	1.5.6	Which of the streams will become rejuvenated after rive	er capture	

QUESTIONS

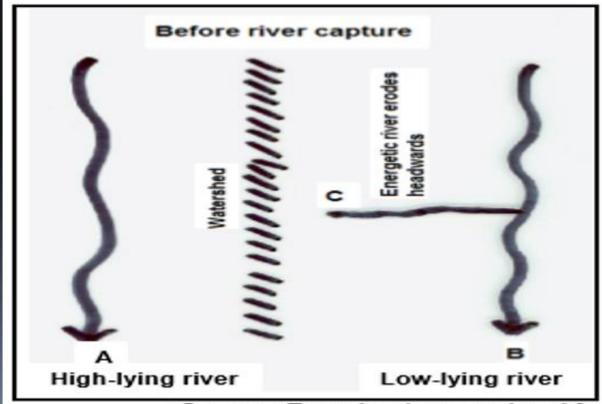
(2)

 (1×2)

has taken place?

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FIGURE 1.5: RIVER CAPTURE



[Source: Examiner's own sketch]

RIVER CAPTURE

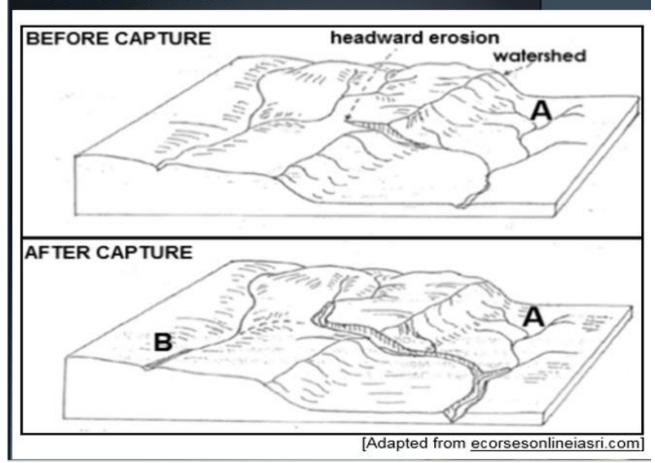
- MAY/JUNE 2017
- 1.6 Refer to FIGURE 1.6, which illustrates river capture.
 - 1.6.1 Define the term river capture.

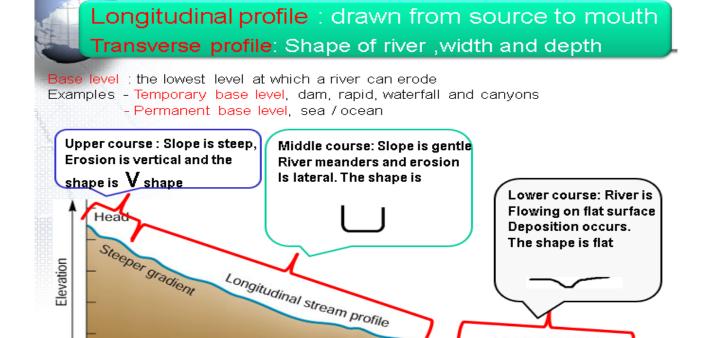
- (1 x 1) (1)
- 1.6.2 What evidence in sketch **A** indicates that river capture is likely to take place? (1 x 1)
- 1.6.3 Name TWO physical changes that river A will undergo after river capture has occurred. (2 x 1) (2)
- 1.6.4 State TWO possible conditions that have led to river **A** being the captor stream. (2 x 2) (4)
- 1.6.5 Write a paragraph of approximately EIGHT lines to describe how the reduced volume of water will negatively impact on the farming community at **B**. (4 x 2)

(8)

(1)

RIVER CAPTURE

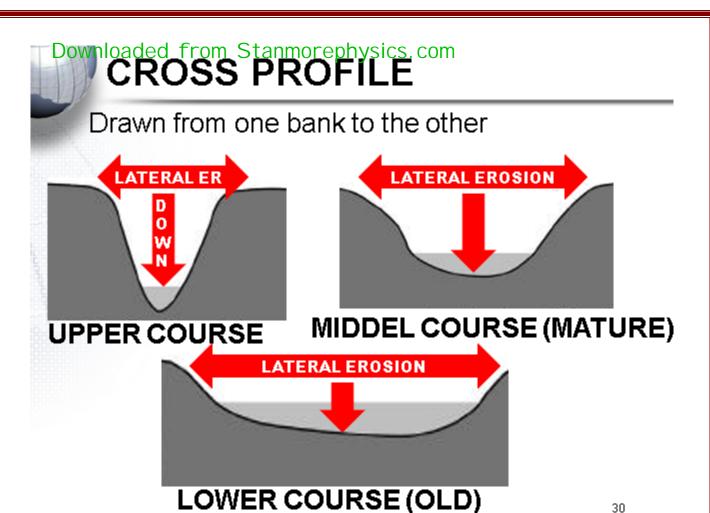




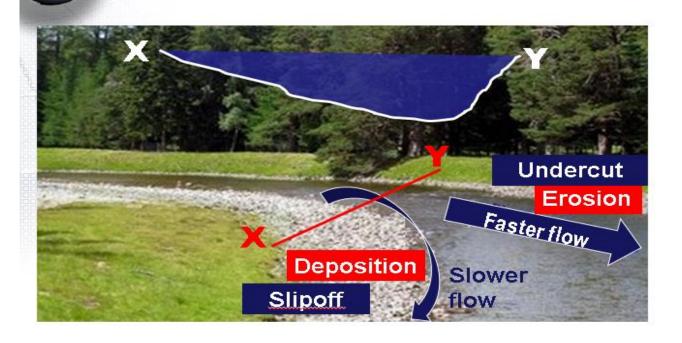
29 Mouth

Gentler gradient

River length



CROSS PROFILE ROUND A BEND





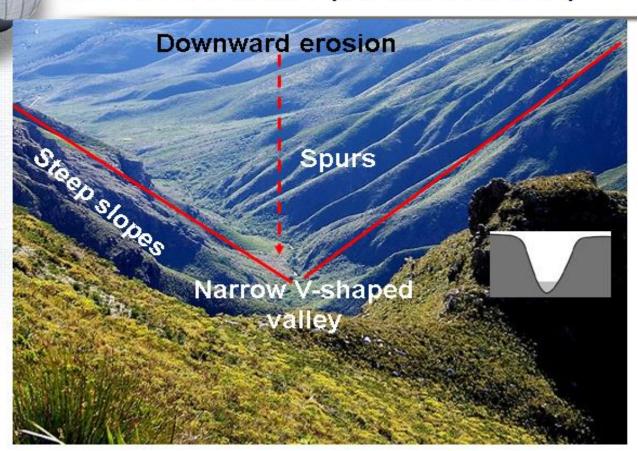




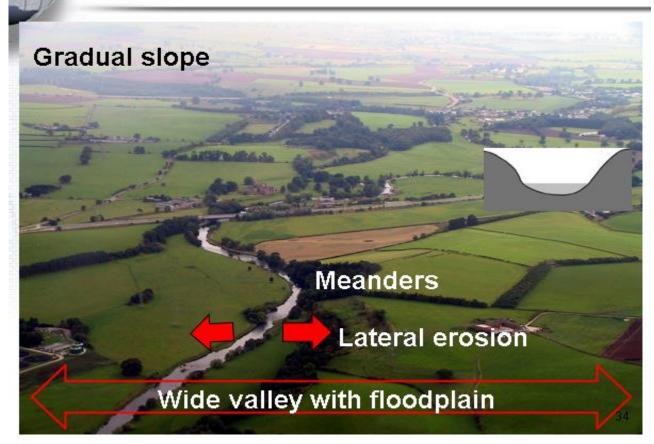
Oxbow lake

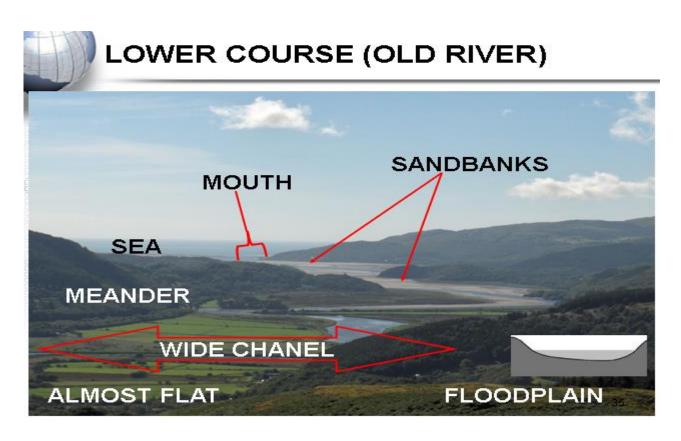
Slip off slope : with more deposition Undercut slope: area with more erosion

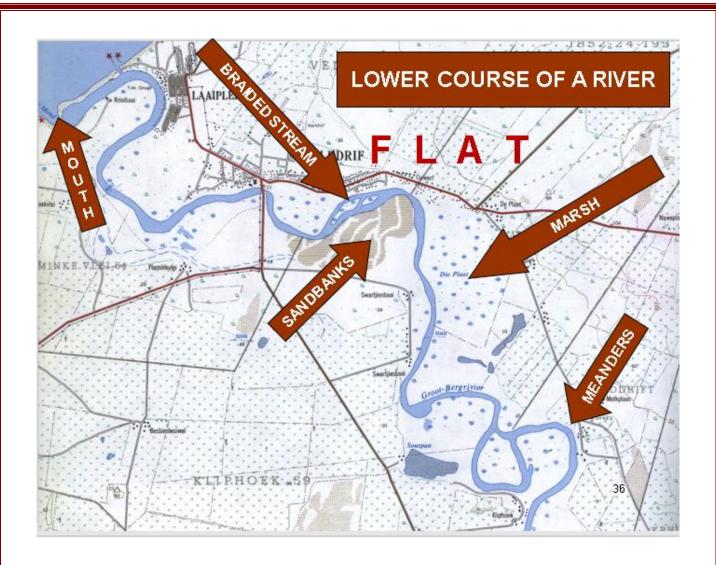
UPPER COURSE (YOUNG RIVER)

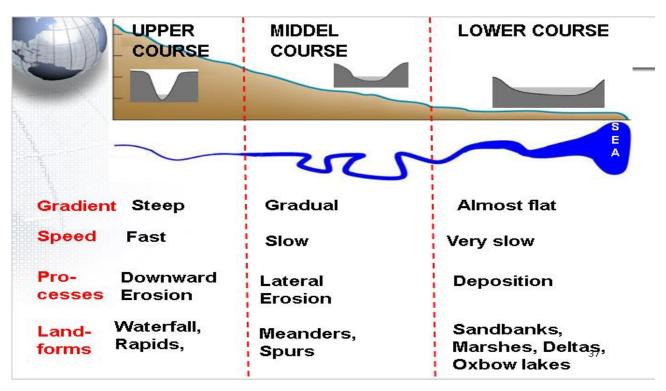


Downloaded from Stanmorephysics.com MIDDLE COURSE (MATURE)



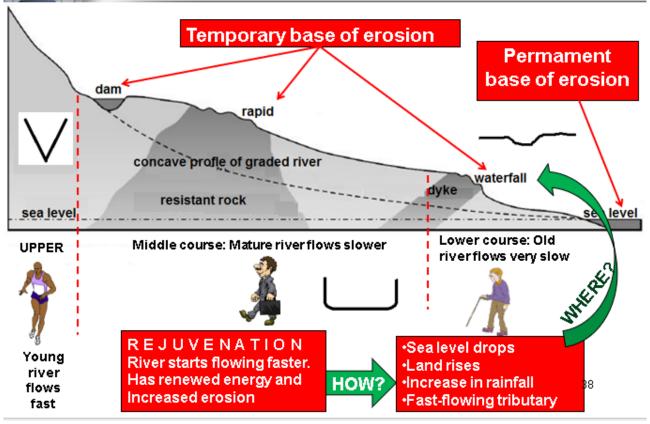






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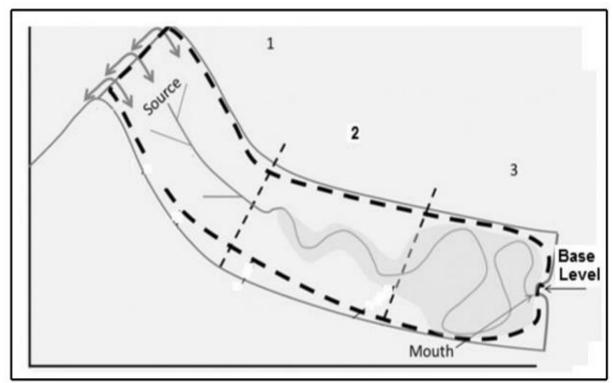
Base level: Lowest level at which a river can erode



		STIONS LUARY MARCH 2018		
1.6	Study FIGURE 1.6 which shows the longitudinal profile of a graded river.			
	1.6.1	What is meant by the term base level of a river?	(1 x 1)	(1)
	1.6.2	Why is the sea regarded as a permanent base level?	(1 x 2)	(2)
	1.6.3	What evidence in FIGURE 1.6 indicates that this river is grade	ed? (1 x 2)	(2)
	1.6.4	Why will a drop in sea level change the grading of the river?	(2 x 2)	(4)
	1.6.5	Draw a simple longitudinal profile to show the impact of the sea level, mentioned in QUESTION 1.6.4, on the shape longitudinal profile.		(2)
	1.6.6	Explain how the interaction between erosion and deposition upper and lower courses of a river help to maintain a graded p		(4)

LONGITUDINAL PROFILE

FIGURE 1.6: LONGITUDINAL PROFILE OF A GRADED RIVER



[Adapted from Yorkshiredalesrivertrust.com]



River grading

- Graded profile
- 1. A profile where there is equilibrium, balance between erosion and deposition
- Ungraded profile
- 1. Is associated with erosion due to uneven / rough surface.

Fluvial landforms:

- Oxbow lake
- 2. Sand Islands
- Flood plain
- 4. River banks / Natural levee
- 5. Waterfalls
- Rapid
- 7. Utilisation of fluvial landforms by humans
- a) Flood plain for planting crops, settlement, increase levee for storing water

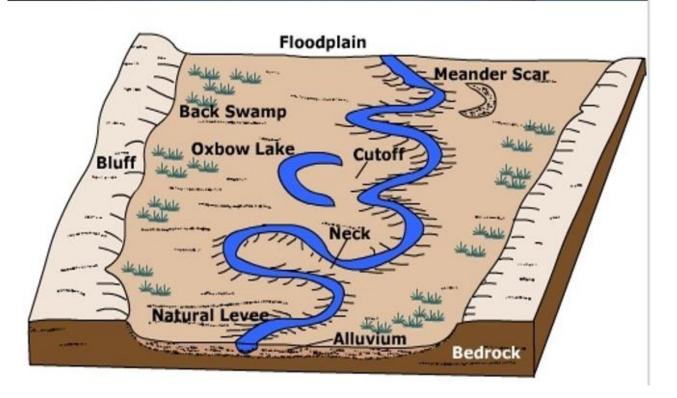
41

DOWNOVIAL FLANDEDRING Physics. com

- 1. LEVEES > these are raised banks of the river that form when the river floods.
- 2. FLOOD PLAINS > are flat valley floor (fertile soil known as alluvium).
- 3. ALLUVIAL FANS > deposition as the river flows off the mountains on to the flatter plains.
- 4. BRAIDED STREAMS > deposition of alluvium forms an island in the middle of the channel, splitting the river into separate channels.
- 5. MEANDERS / MEANDERING CHANNEL > bends in the river channel.
- 6. OXBOW LAKES > a meander that is cut off when the river takes a new course across the neck of a meander loop.
- 7. MEANDER SCARS > a dried up oxbow lake.
- 8. DELTAS > formed when the deposited material builds up and extends into the lake.

PICTURE OF FLUVIAL LANDFORMS

PICTURE OF FLUVIAL LANDFORMS

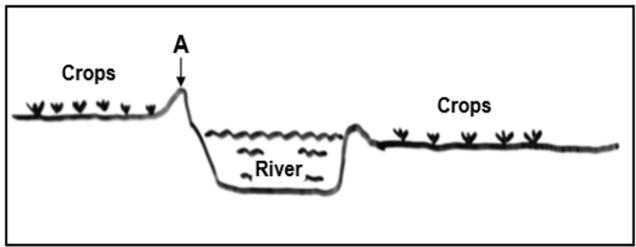


QUESTIONS

- NOVEMBER 2014
- 1.6 Refer to FIGURE 1.6 showing a levee.
 - 1.6.1 Identify the fluvial landform on which crops are grown. (1 x 1)
 - 1.6.2 Why is the landform in QUESTION 1.6.1 more likely to flood in the lower course? (2 x 2) (4)
 - 1.6.3 Identify the natural feature **A** that protects crops from flooding. (1 x 2) (2)
 - 1.6.4 Briefly describe the formation of the natural feature in QUESTION 1.6.3. (2 x 2) (4)
 - 1.6.5 Discuss the negative impacts on the farmer, should the river break through feature **A**. (2 x 2) (4)

LEVEE

FIGURE 1.6: LEVEE



[Source: Examiner's own sketch]

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IMPORTANCE OF WATER

- FOR DOMESTIC USE
- FOR IRRIGATION
- FOR HYDRO ELECTRICITY
- FOR USE IN BUSINESSES. Eq INDUSTRIES
- FOR ANIMALS

IMPACTS OF PEOPLE ON DRAINAGE BASINS AND CATCHMENT AREAS

- Pollution by human activities. E.g industries, mining and recreational activities.
- Excessive use of fertilizers by farmers.
- Water pollution by leakage of ships/ spilling of oil.
- Land pollution by industries and mines through the release of oil/ chemicals to the land that will end up to the sea
- Killing of marine life.
- ullet Disturbing ecosystem and bio d ${f i}ee$

CATCHMENT AND DRAINAGE BASIN MANAGEMENT

- Fine be imposed to industries that pollute water.
- Educate people about the importance of water.
- Awareness campaign to be conducted.
- Educate/ train farmers on better farming methods.
- Buffering the catchment areas.
- Conservation and restoration of wetland
- Avoid construction and settlement of floodplain.
- The clearing of vegetation(defores on) and planting of alien trees must be controlled.

QUESTIONS

- NOVEMBER 2015
- 1.6 Read the newspaper article with the heading 'Vaal River Under Pressure' in FIGURE 1.6 and answer the questions that follow.
 - 1.6.1 Name TWO provinces that are dependent on the Vaal River as a water source. (2 x 1) (2)
 - 1.6.2 Give TWO possible reasons why the Vaal River is becoming increasingly toxic/poisoned. (2 x 1) (2)
 - 1.6.3 According to the article, water is pumped into the Vaal River to dilute/reduce the pollution. Explain why this is not a sustainable solution. (2 x 2) (4)
 - 1.6.4 Explain, in a paragraph of approximately EIGHT lines, why the cost of food and electricity could increase in future if pollution of the Vaal River is not controlled. (4 x 2) (8)

DIMPACTS OF HUMANS ON DRAINAGE BASINS

FIGURE 1.6: IMPACT OF HUMANS ON DRAINAGE BASINS

VAAL RIVER UNDER PRESSURE

Sipho Masondo | The Times Live

The Vaal River and its catchment system are becoming increasingly toxic/ poisoned – posing a threat to health, the economy and food production in four provinces.

Water scientists and other experts describe the Vaal River – which supplies water to Gauteng, the country's economic and industrial powerhouse, as well as to farmers in Gauteng, North West, the Free State and Northern Cape – as 'in crisis' and 'under siege' by polluters. Since the 1990s, the Department of Water Affairs has pumped water from the Lesotho Highlands into the river to supplement the water supply. This water is increasingly needed to dilute the pollution.

Said Krige: 'We are using expensive drinking water to sort out the problem of pollution. Dilution is not a solution to pollution.'

The water in the Vaal River system will eventually cost far more to treat, leaving companies such as Sasol and Eskom to pay more for the chemicals needed to treat the water before they use it. This will increase their costs.

[Adapted from www.timeslive.co.za]

QUESTIONS

MAY/JUNE2017

- 2.6 FIGURE 2.6 is a case study on catchment and river management. Read the article carefully before answering the questions that follow.
 - 2.6.1 Name TWO initiatives that the Working for Wetlands programme has put in place for sustainable river management in South Africa.

(2 x 1) (2)

- 2.6.2 Why have catchment management programmes been introduced for South African rivers? (1 x 2)
- 2.6.3 Explain the role of wetland restoration in maintaining a good water supply in South African rivers. (2 x 2) (4)
- Discuss the negative impact of human activities on catchment areas in South Africa.
 (3 x 2)

CATCHMENT AND RIVER MANAGEMENT

FIGURE 2.6: CATCHMENT AND RIVER MANAGEMENT

CASE STUDY ON CATCHMENT AND RIVER MANAGEMENT: WORKING FOR WETLANDS

Covering many South African river basins, the Working for Wetlands programme operates in all major catchments.

Half the wetlands lost

65% of South Africa receives less than 500 mm average annual rainfall, meaning that drought is an ever-present risk.

Future projections indicate that by 2025 the country's water requirements will outstrip supply, unless urgent steps are taken to manage the resource more sustainably.

There are already major problems of supply and quality, with an estimated 8 million South Africans currently having no access to drinkable water.

It is against this background that the South African government, working in partnership with WWF and others, has initiated catchment management programmes. These include the control of water-thirsty alien plant infestations and wetland restoration across the country.

[Source: http://wwf.panda.org/about_our_earth/about_freshwater/rivers/irbm/cases/ southafrica_river_case_study_cfm/] Downloaded from Stanmorephysics.com

Cattement Geography



Concepts

Settlement: grouping of people, building structures and communication network that function as a single integrated system on daily basis/ place where people live

/ Site: piece of land occupied by settlement

Situation: A settlement in relation to its surrounding

Sphere of influence: The maximum area served by function/ by central place.

Range: maximum distance from where a business draws its customers

Threshold population: minimum number of customers required to support business

Function: main activity that people are involved in (Primary, secondary or Economic sector.)



Classification according to size and function



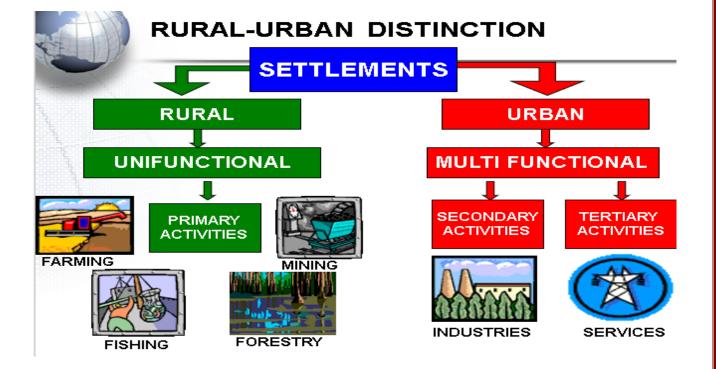
Smallest

- Isolated farmstead: single farm and out buildings
- Hamlet: A loose grouping of few farmsteads
- · Village: Dense grouping of farmsteads
- Town: Dense populated urban area
- City: Large town where people live and work.
- Metropolis: Main city surrounded by dependent towns
- Conurbation: A large town surrounded by coalescence/combination of towns and cities
- Megalopolis: A gigantic urban complex formed by coalescence of Conurbations. New York



Largest

Rural settlement: It is unifunctional, and focus on primary activities.(e.g. farming, fishing, forestry, mining)
Primary: Extraction of raw material from nature



Downloaded from Stanmorephysics.com NUCLEATED & DISPERSED: P1/P2

involves NUCLEATED and DESPERSED SETTLEMENTS

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NUCLEATED

Buildings close to each other

DISPERSED

Buildings far apart

Ø ø ø Ø ø Ø ø.

FUNCTION: main activity that people are involved in

Primary activities: extraction of raw material from nature (farming, fishing, mining, forestry) Unifunctional

Secondary activities: processing of raw materials (factories and Industries)

Tertiary activities: provision of services (research, banks, teachers, doctors)



QUESTIONS

FEBRUARY/ MARCH 2015

- 3.3 Refer to FIGURE 3.3 showing a nucleated village.
 - 3.3.1 Describe the shape of the village.

 (1×1) (1)

3.3.2 Discuss TWO disadvantages for farmers living in this village. (2 x 2)

(4)

(2)

333 Discuss ONE advantage for farmers living in this village.

 (1×2)

3.3.4 Write a paragraph of approximately EIGHT lines in which you suggest sustainable measures to prevent people from leaving this village to live in cities.

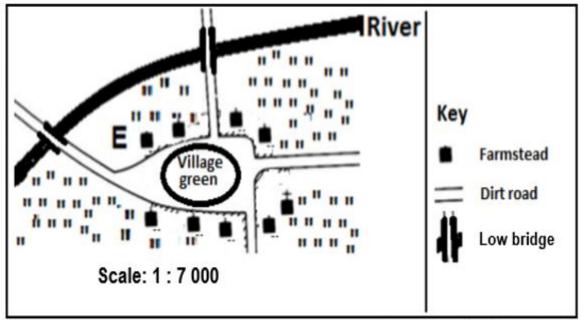
 (4×2)

(8)



SETTLEMENT TYPE

FIGURE 3.3: SETTLEMENT TYPE



[Adapted from GCSE Handbook]

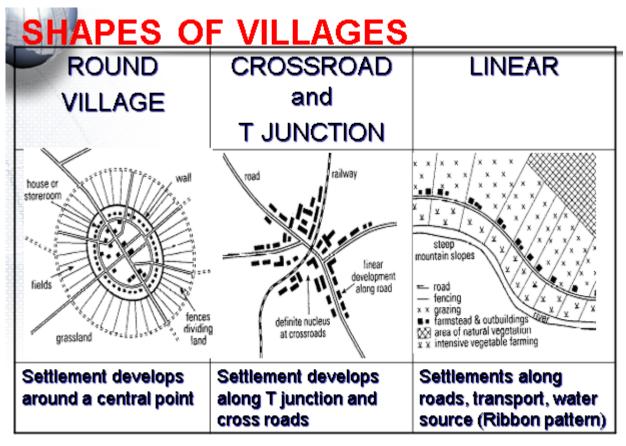
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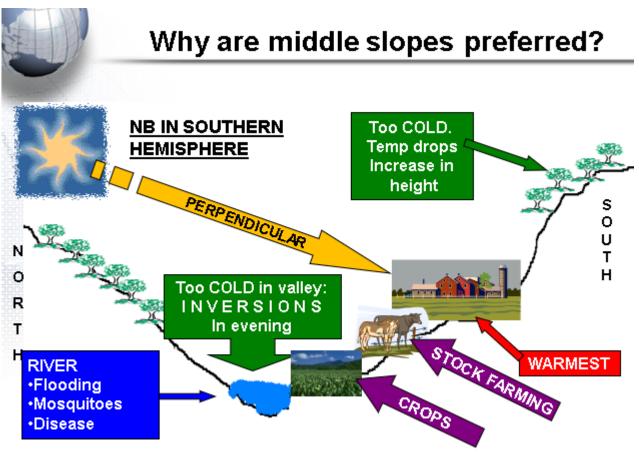
RURAL SETTLEMENT

Factors influencing choice of site

How site affects location of rural settlement

- 1. Availability of water: Wet point were water is scarce people are nucleated
- Dry point settlement: were there is a lot of water, dry sites are chosen.
- Aspect: The direction in which slope faces. North facing are warmer and good for settlement
- 4. Relief : Flat larrears are better for farming and settlement. If on mountains it acts as defence.
- 5. Climate: No arreas can develop with extreme conditions. Climate must be good for crops and animals
- 6. Soil : Fertile soil attracts more farming since production is high





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RURAL DEPOPULATION: Decrease in number of people in rural arreas.



RURAL-URBAN MIGRATION: Movement from rural to urban areas



FACTORS



PEOPLE TO

1.Better jobs 2.More Salaries 3.Better education 4. Better Medical facilities 5. Bright lights / Entertainment



FACTORS

1.Mechanization / Use of machines 2.Low salaries 3.Natural disasters (Droughts, floods, Storms) 4.Crime 5.Unemployment

RURAL DEPOPULATION



RURAL-URBAN MIGRATION: Movement from rural to urban areas



CONSEQUENCES / RESULTS

	CONCEGUENC	LO / INLOULTO
	RURAL ARREAS	URBAN ARREAS
3	1.Schools and shops close down	1.Crime (Gangsters)
	2. Houses are dilapidated	2. Squatter settlements
	3. Aged people are left behind	3. Polluted squatter settlements
	4.Crime (Farm owners are killed)	4.Unemployment
	5. Unemployment	
	6.Few new investments	

SOLUTIONS

- Consult with local people to satisfy their basic needs, shelter, water, food, education
- 2. Encourage tourism (Encourage visitors to rural arreas)
- 3. Advertise town to road users
- 4. More jobs in maintaining roads, sanitation,
- 5. bridges, buildings (infrastructure)
 6. Better educational institutions (schools and universities
 7. Provide subsidies to businesses



QUESTIONS

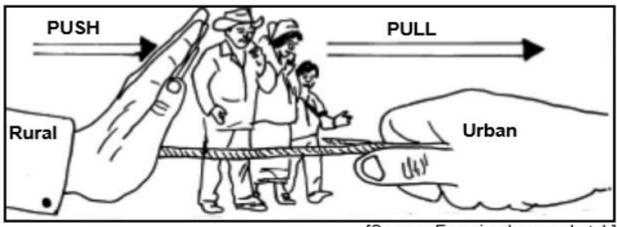
- 4.4 FIGURE 4.4 is a cartoon on rural-urban migration.
 - 4.4.1 Define the term *rural-urban migration*. (1 x 1)
 - 4.4.2 Give TWO push factors that result in rural-urban migration. (2 x 2) (4)
 - 4.4.3 Propose ONE way of preventing rural towns from becoming 'ghost towns'. (1 x 2) (2)
 - 4.4.4 There is a view that quality housing and employment opportunities are pull factors to urban areas. In a paragraph of approximately EIGHT lines, critically evaluate the extent to which this is true.

(4 x 2) (8)



RURAL URBAN MIGRATION

FIGURE 4.4: RURAL-URBAN MIGRATION



[Source: Examiner's own sketch]

Downloaded from Stanmorephysics.com QUESTIONS

NOVEMBER 2015

Refer to FIGURE 4.3, which shows characteristics of rural depopulation.

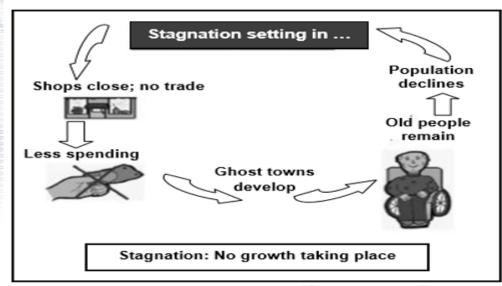
4.3.1	Define the term rural depopulation.	(1 x 1) (1)
-------	-------------------------------------	------------	---

- 4.3.2 Which age group is the first to migrate to cities? (1 x 1)
- 4.3.3 State ONE characteristic of a ghost town. (1 x 2) (2)
- 4.3.4 Give TWO reasons why stagnation (no growth) occurs in rural towns.
 (2 x 2) (4)
- 4.3.5 Write a paragraph of approximately EIGHT lines in which you make suggestions on how this cycle of stagnation can be broken. (4 x 2) (8)



RURAL DEPOPULATION

FIGURE 4.3: CHARACTERISTICS OF RURAL DEPOPULATION



[Source: omega7geog.com]

Social justice issues in rural areas

Cial justice issues are problems that affect person's standard of living.

- All people have the right to the satisfaction of their needs.
- SOCIAL AND ECONOMIC INEQUALITIES INCLUDE THE FOLLOWING
- 1. Unemployment
- 2. Land ownership issues (solve the unfair distribution of land)
- 3. Women taking home responsibilities alone
- Food insecurity (shortage of food)
- Lack of services sanitation, and fresh water

PROGRAMMES TO SOLVE SOCIAL JUSTICE ISSUES

PROGRAMME	AIM / PURPOSE
1.Comprehensive Rural Development Programme	Give basic needs, develop roads, bridges, sanitation and entrepreneurship
2.Department of Rural development and land reform	Give housing, water, schools and crèches, jobs and land rights and tenure for people
Recapitalisation and Development Programme	Give jobs, Food security and irrigation schemes
4. Land Reform Programme	Acquire and redistribute farms



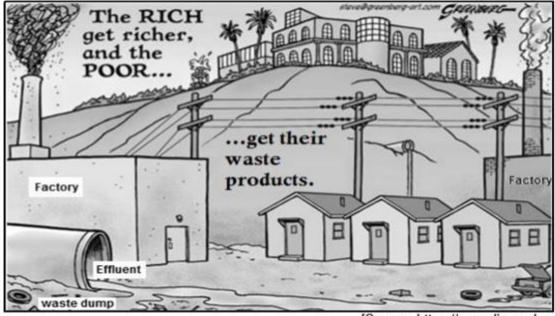
QUESTIONS

FEBRUARY/MARCH 2018

- 4.4 FIGURE 4.4 shows injustices associated with urbanisation.
 - 4.4.1 Define the term *injustice*. (1 x 1) (1)
 - 4.4.2 What type of injustice is depicted in the cartoon? (1 x 1)
 - 4.4.3 What evidence in the cartoon indicates that the poor are being unfairly treated? (2 x 1) (2)
 - 4.4.4 Discuss what is meant by the phrase, 'the POOR ... get their waste products'. (1 x 2) (2)
 - 4.4.5 Explain the impact of waste products on the health and environmental well-being of the poor. (2 x 2) (4)
 - 4.4.6 Suggest THREE ways in which to resolve the illustrated injustice in urban areas sustainably. (3 x 2) (6)

AREAS

FIGURE 4.4: INJUSTICES IN URBAN AREAS



[Source: https://s-media-cache-

ak0.pinimg.com/originals/ca/ab/c7/caabc75946c2e1260c536d4081908cce.jpg]

2. LAND REDISTRIBUTION:

Aim – to redistribute 30% of agricultural land to all other races from whites. This is to happed over 15 years

3. LAND TUNURE

Aim – Is to legally protect the rights of people to use or occupy land which they do not own. Farm labourers own a sense of security and are protected from unlawful eviction

1. LAND RESTITUTION:

Aim – People who lost their land in the past, are allowed to get their land back or given money as compensation

3 LAND REFORM PROGRAMMES

FEBRUARY/ MARCH 2018

- 4.3 Refer to FIGURE 4.3, an article about land reform.
 - 4.3.1 Define the term land reform. (1 x 1) (1)
 - 4.3.2 According to the article, why has the land reform programme failed?

 (1 x 1) (1)
 - 4.3.3 Briefly discuss TWO factors that explain why land reform in South Africa is necessary. (2 x 2) (4)
 - 4.3.4 In a paragraph of approximately EIGHT lines, discuss methods that the government can put in place to provide support to the people resettled on the land once land reform has taken place. (4 x 2) (8)



LAND REFORM

FIGURE 4.3: LAND REFORM

SOUTH AFRICA'S LAND REFORM EFFORTS LACK A FOCUS ON STRUGGLING FARMERS

South Africa's land reform programme has suffered many failures and its beneficiaries have in many cases seen little or no improvements to their livelihoods. Land reform remains an unresolved historical grievance.

There is a general agreement that land reform has been a failure and needs to be sped up. Research shows that between 70% and 90% of the projects (including land restitution projects) have failed. The government needs to reconsider its policy of simply acquiring land for redistribution. It needs to take measures to make sure that redistributed land is used productively.

If land reform is to continue in its current fashion, its prospects are doomed. It is the government's duty to see to it that they create self-sufficient farmers through the provision of post-settlement support.

[Adapted from http://mg.co.za/article/2016-12-06-south-africas-landreform-efforts-lack-a-focus-on-struggling-farmers] Downloaded from Stanmorephysics.com

URBAN SETTLEMENT

CLASSIFICATION

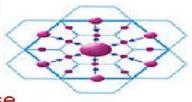
OF URBAN SETTLEMENTS

ACCORDING

TO FUNCTIONS

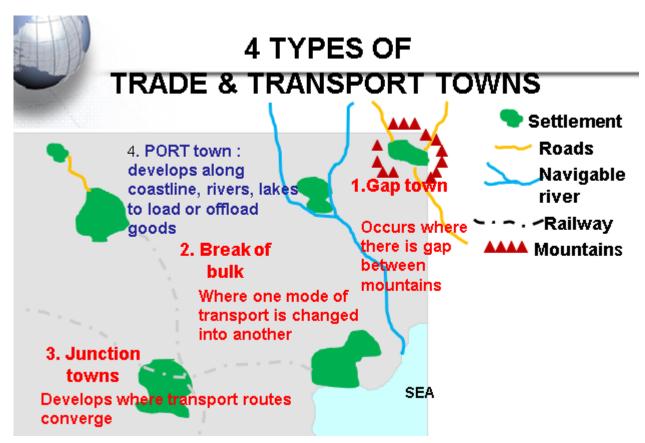
TO FUNCTIONS

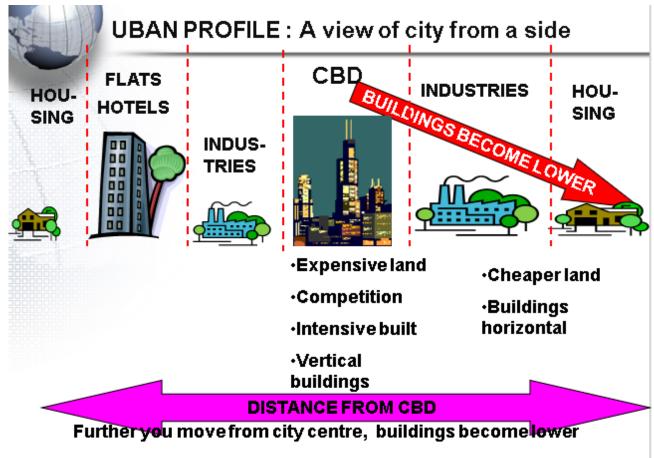
CENTRAL PLACE TOWN: Provides goods
 and services to surrounding rural area



 SPECIALISED CITIES/ TOWNS: these functions have one dominant function, education, mining, recreational







Downloaded from Stanmorephysics.com QUESTIONS

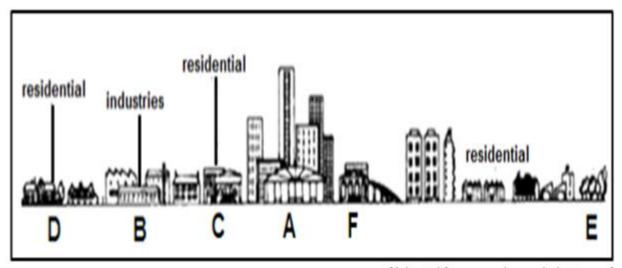
QUESTION 3

- 3.1 Refer to FIGURE 3.1 which shows the urban profile of a city.
 - 3.1.1 Name land-use zone A.
 - 3.1.2 Name land-use zone F.
 - 3.1.3 Which land use-zone occupies the most space?
 - 3.1.4 Is industrial area B a light or heavy industrial zone?
 - 3.1.5 Which ONE of the two residential areas (C or D) is most likely the high-income area?
 - 3.1.6 Identify land-use zone E.
 - 3.1.7 Which land-use zone has the highest land value? (7 x 1) (7)



URBAN PROFILE

FIGURE 3.1: URBAN PROFILE



[Adapted from www.learnmindset.co.za]

LAND USE ZONES



Accessible
Highest buildings
High order functions
Low order Functions

INDUSTRIES



Light industries
Heavy industries
Location factors

RETAIL

Isolated stores Ribbon development Outlying business cen. Shopping Centre

RESIDENTIAL



High income - where Low income - where Informal settlements

ZONE OF DECAY



Found on edge of CBD Old buildings, pollution Functions mixed races
Urban renewal

RURAL URBAN FR.



Between urban & rural. Golf, Power stations, Cemeteries, airports, sewage

QUESTIONS

- 3.3 Study FIGURE 3.3 showing urban land-use.
 - 3.3.1 Define the term urban land-use.

(1 x 1)

3.3.2 Name land-use zone A.

(1 x 1) (1)

3.3.3 What evidence indicates that land-use zone A has a high degree of accessibility? (1 x 2)

(1 x 2) (2)

 Discuss TWO problems that land-use zone A experiences due to its high accessibility. (2 x 2)

2) (4)

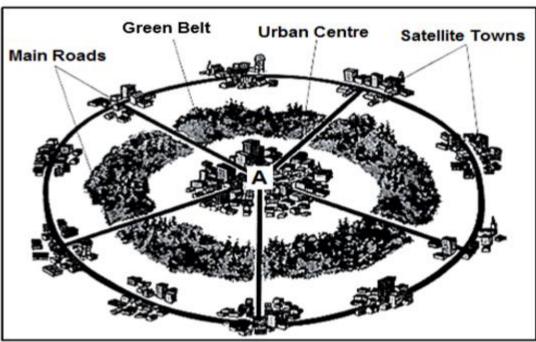
3.3.5 In a paragraph of approximately EIGHT lines, analyse the role that green belts play in reducing the environmental problems that land-use zone **A** experiences as a result of its accessibility. (4 x 2)

(8)

(1)

Downloaded from Stanmorephysics com URBAN LAND USE ZONES

FIGURE 3.3: URBAN LAND-USE



[Source: http://www2.mcdaniel.edu/Biology/ESP/cities/urbanquestions.html]

Street patterns P1 and P2



RADIAL

GRID / BLOCK



IRREGULAR

Street radiate away from CBD

ADVANTAGES

- 1. Easy flow of traffic
- Equal access to centre
 of town

DISADVANTAGES

- 1. Traffic congestion
- 2. Wastes a lot of space

A regular planned street pattern, with right angle.
Associated with older cities

ADVANTAGES

- 1. Easy to plan and layout
- 2. Easy to find way out
- Plots are easily subdivided
- 4. Less wastage of land

DISADVANTAGES

- Traffic congestion
- 2. Waste time and fuel
- 3. More accidents
- 4. Monotonous

Planned around physical feature

ADVANTAGES

- 1. Easy flow of traffic
- 2. Not monotonous

DISADVANTAGES

- 1. Easy to get lost
- 2. Difficult to find direction



QUESTIONS

FEBRUARY/ MARCH 2015

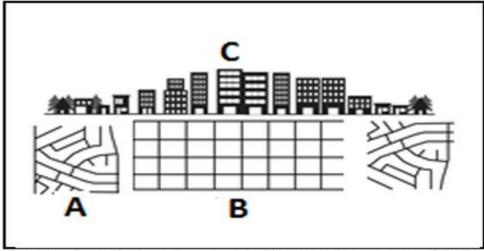
QUESTION 4

- 4.1 FIGURE 4.1 represents an urban profile and street patterns.
 - 4.1.1 Name the street pattern at A.
 - 4.1.2 Name the street pattern at B.
 - 4.1.3 Give ONE historical reason for the particular layout of the street pattern at B.
 - 4.1.4 Give ONE reason why urban planners have chosen street pattern A in modern times.
 - 4.1.5 State ONE characteristic of the land-use zone at C.
 - 4.1.6 Give ONE reason why the height of the buildings decreases from C to the periphery.
 - 4.1.7 Is the density of buildings at **C** high or low? (7 x 1) (7)



STREET PATTERNS

FIGURE 4.1: URBAN PROFILE AND STREET PATTERNS



[Source: http://urbanvistadotnet.files.wordpress.com/2011/ 08/4-1.jpg]

Downloaded from Stanmorephysics.com QUESTIONS

NOVEMBER 2017

QUESTION 4

- 4.1 Refer to FIGURE 4.1 on street patterns. Match the descriptions below with street pattern A or B. Choose the answer and write only the letter A or B next to the question number (4.1.1–4.1.8) in the ANSWER BOOK, for example 4.1.9 A.
 - 4.1.1 Longer streets with fewer intersections
 - 4.1.2 Planned to facilitate a smooth flow of traffic
 - 4.1.3 A feature of new urban developments
 - 4.1.4 Makes building easier due to the regular shaped plots
 - 4.1.5 Not suitable for steep and hilly land
 - 4.1.6 Saves fuel and travelling time
 - 4.1.7 Easier to find places
 - 4.1.8 Associated with the oldest part of a settlement

(8 x 1)

(8)

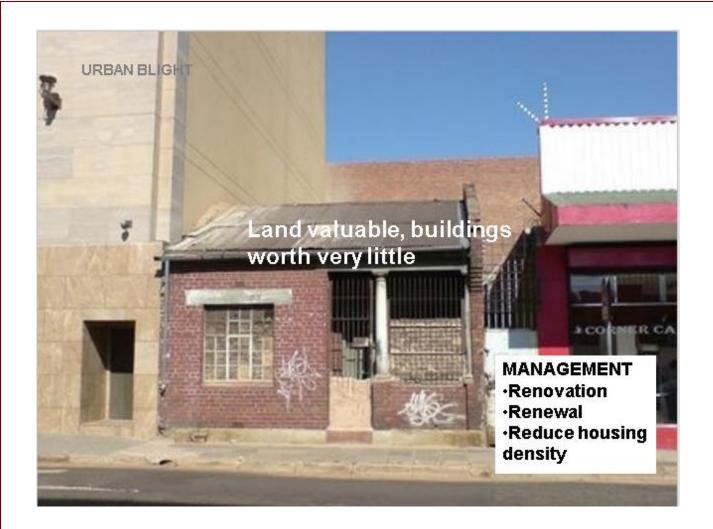


STREET PATTERNS

FIGURE 4.1: STREET PATTERNS



[Source: www.planetizen.com





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QUESTIONS

(left) their homes yet?

3.4	Refer to FIGURE 3.4, an extract based on urban blight, which is an urban					
	issue related to rapid urbanisation.					

What do you understand by the term urban blight?

J.4.1	What do you understand by the term arban bright!	(1 × 1)	(1)
3.4.2	State ONE cause of urban blight.	(1 x 1)	(1)

- 3.4.3 Why have the inhabitants of 120–128 Bromwell Street not vacated
- 3.4.4 Why do residents feel that urban renewal of the Woodstock Hub is destroying their lives? (1 x 2)
- 3.4.5 Give TWO reasons why the transition zone requires urban renewal. (2 x 2)
- 3.4.6 Explain why urban renewal will change 120–128 Bromwell Street from a low- to a middle- or a high-income residential area. (2 x 2) (4)

 (1×1)

 (1×2)

(1)

(2)

(4)

Downloaded from Stanmorephysics.com URBAN BLIGHT

FIGURE 3.4: URBAN BLIGHT

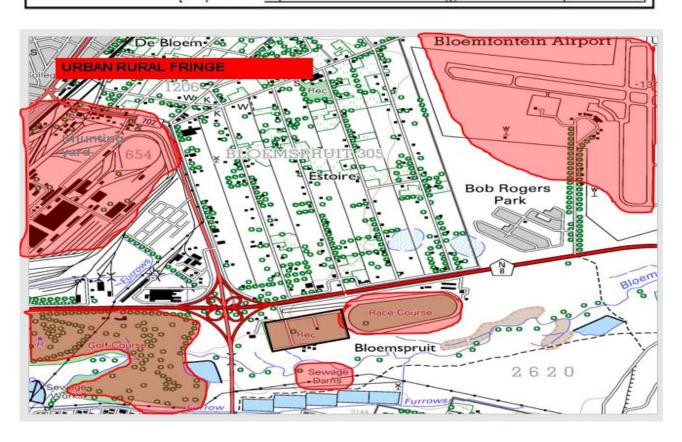
URBAN RENEWAL PROGRAMME TO FIGHT URBAN BLIGHT ANGERS WOODSTOCK RESIDENTS

The deadline for Bromwell Street residents in Woodstock, Cape Town, to leave their homes has been extended. One of the residents says urban renewal programmes are destroying their lives in Woodstock and Salt River.

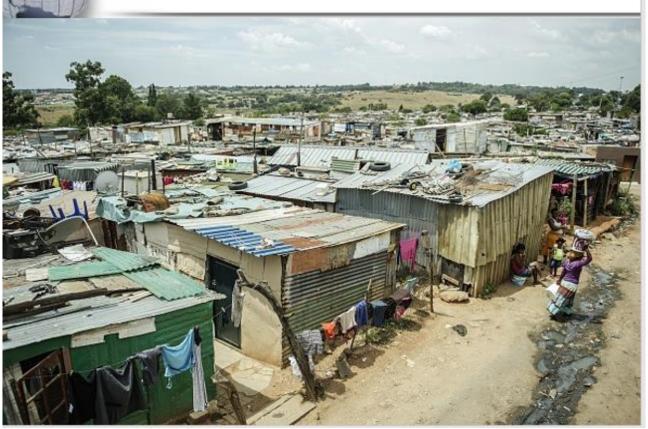
The Woodstock Hub gained possession of 120–128 Bromwell Street in 2013 to upgrade the buildings. The director of the Woodstock Hub says these properties were supposed to be vacated. Three years later the residents say they have nowhere to go, and blame the urban renewal project and the government for their predicament.

Western Cape MEC of Human Settlements says he has offered the families housing in Delft, but they didn't want to take it. The residents say they don't want to be forced to move so far out of the city into a community that they are not familiar with.

[Adapted from http://www2.mcdaniel.edu/Biology/ESP/cities/urbanquestions.html]









INFORMAL SETTLEMENT

Is an unplanned residential

OTHER NAMES OF INFORMAL SETTLEMENT:

- 1. Slums
- 2. Shanty towns
- 3. Squatter camps
- 4. Ghetto

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MATERIALS USED TO BUILD THEIR HOUSES:

- 1. Wood
- 2. Plastics and
- 3. Corrugated irons

AREAS WHERE INFORMAL SETTLEMENT ARE FOUND:

- The outskirts of the city.
- Alongside of formal houses.

INFORMAL SETTLEMENT ISSUES / PROBLEMS/ CHALLENGES:

- 1. Lack of basic services e.g water, electricity and sanitation
- 2. Improper houses
- 3. Fire > due to the use of paraffin and candles and open fires.
- 4. Bad weather during summer and winter
- Crime
- 6. Unemployment
- 7. Poverty
- 8. Experience floods especially at the low lying areas.

STRATEGIES TO ADDRESS THE ISSUES OF INFORMAL SETTLEMENT:

- 1. Formalising the settlement
- Build proper houses.
- 3. Provide basic services like water and sanitation.
- 4. Relocate those who are living in a risk area
- Construct proper roads.



QUESTIONS

MAY/ JUNE 2016

- 4.4 Study FIGURE 4.4 showing an informal settlement.
 - 4.4.1 Define the term informal settlement. (1 x 1)
 - 4.4.2 (a) Name TWO factors that could have influenced the location of this informal settlement. (2 x 1) (2)
 - (b) Why is location an important factor to the residents of informal settlements? (1 x 2) (2)
 - 4.4.3 Explain TWO negative environmental impacts of informal settlements. (2 x 2) (4)
 - 4.4.4 With reference to FIGURE 4.4, give ONE reason why fire could spread through this settlement easily. (1 x 2)
 - 4.4.5 Give TWO possible reasons why local governments want to restrict the growth of informal settlements. (2 x 2) (4)

Downloaded from Stanmorephysics.com INFORMAL SETTLEMENT

FIGURE 4.4: AN INFORMAL SETTLEMENT



[Adapted from http://www.pholapark.settlement.co.za]