GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

GAUTENG DEPARTMENT OF EDUCATION

PREPARATORY EXAMINATION

2018

10781

GEOGRAPHY

PAPER 1

ADDENDUM

15 pages

GEOGRAPHY: P1 ADDENDUM
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GAUTENG DEPARTMENT OF EDUCATION

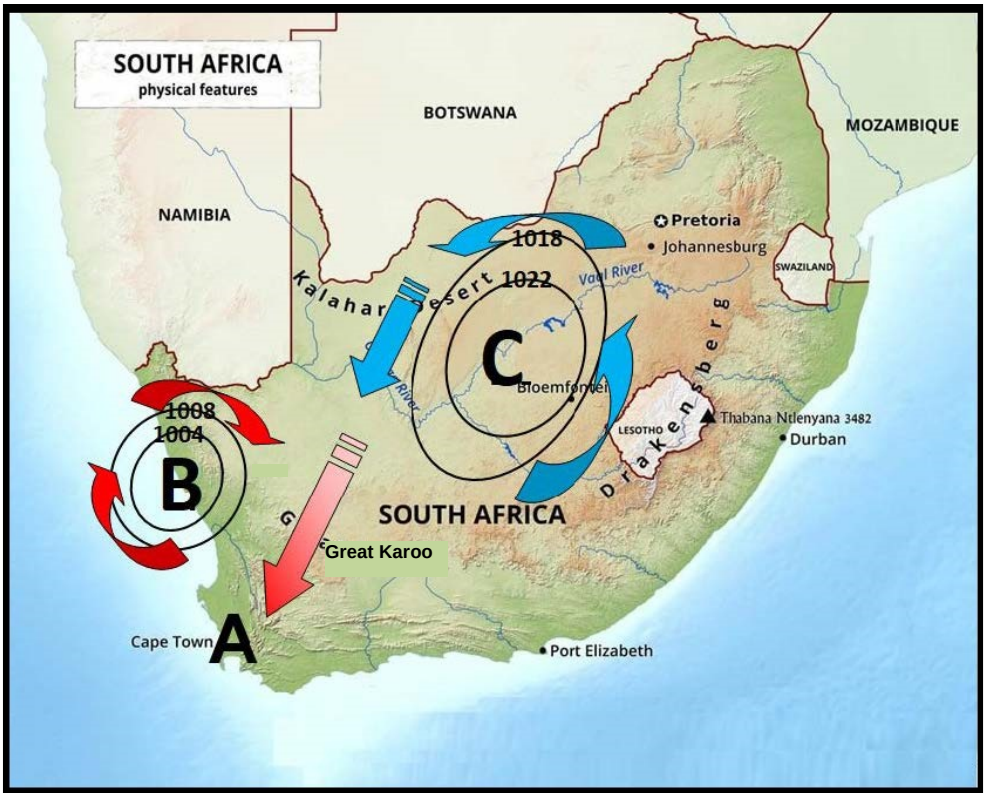
PREPARATORY EXAMINATION – 2018

GEOGRAPHY
(Paper 1)

TIME: 3 hours

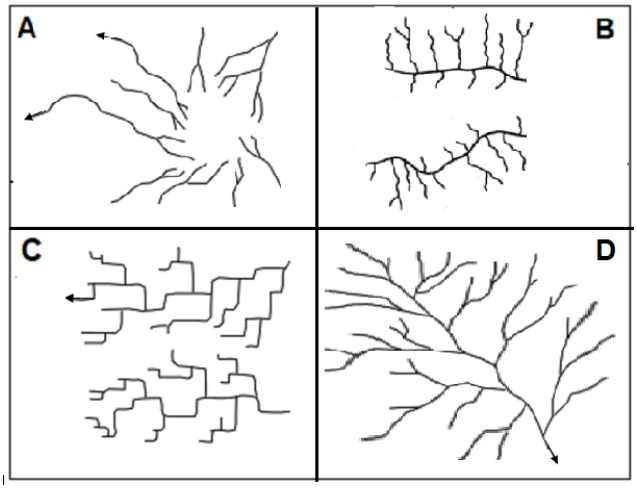
MARKS: 225

FIGURE 1.1 TRAVELLING DISTURBANCES OVER WESTERN CAPE



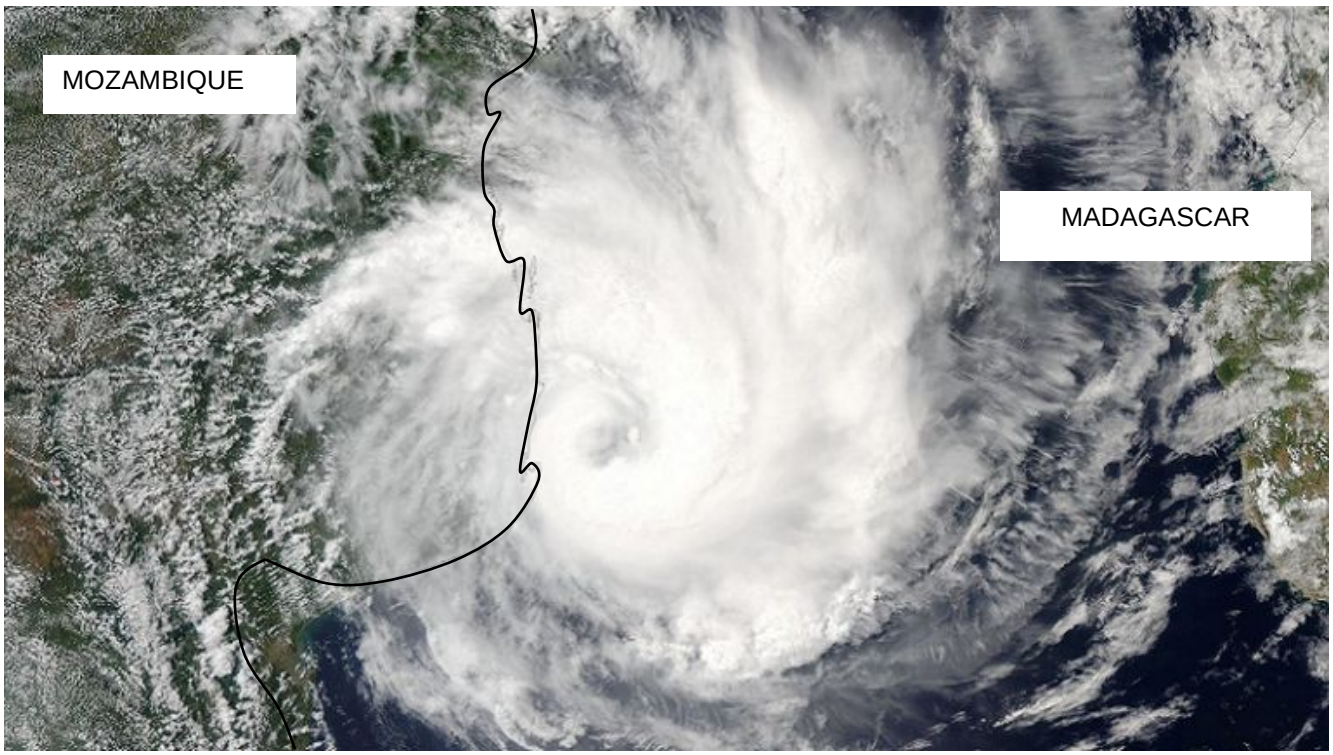
[Source: Adapted from https://en.wikipedia.org/wiki/Berg_wind#/media/File:Coastal_low.jpg]

FIGURE 1.2 DRAINAGE PATTERNS



[Sources: Examiner's own sketch]

FIGURE 1.3 TROPICAL CYCLONE DINEO KILLS FOUR IN MOZAMBIQUE

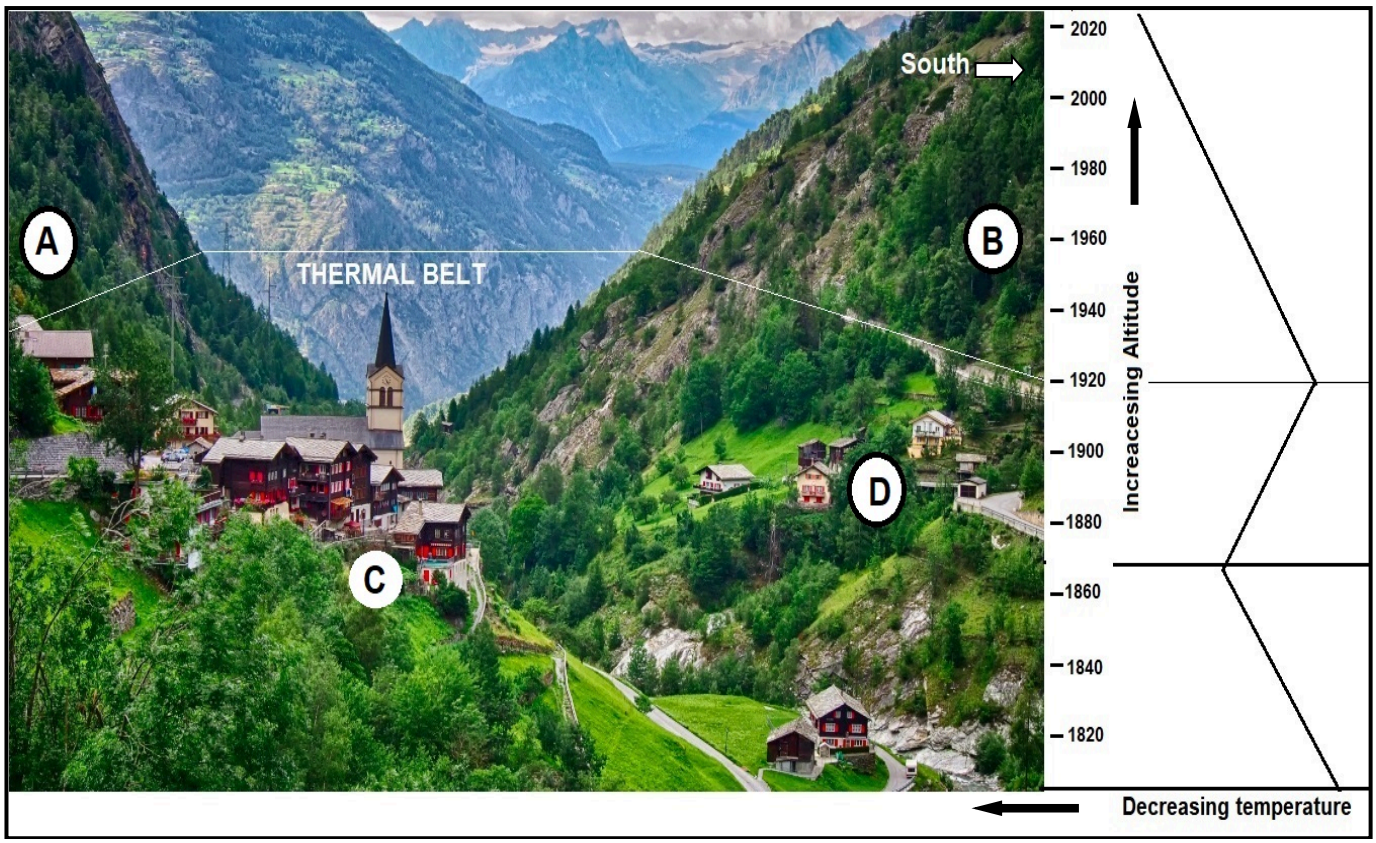


The tropical depression, which is now referred to as ex-Dineo, has been downgraded from a category four tropical cyclone to a tropical depression after making landfall. Weather authorities say it still poses great danger, despite moving inland. Weather authorities in South Africa have warned that, despite the declassification of the storm and a less visible vortex, caution must still be taken for the next 48 hours.

Strong winds, torrential rainfall, flooding and very rough seas should still be expected, the weather service advised. “There is an increasing risk of heavy showers and thunderstorms over the Lowveld and escarpment regions of Mpumalanga and Limpopo today, especially towards evening and overnight, when very heavy rain, of the order of 100mm to 200mm can be expected over the eastern half of the Limpopo province,” said the South African Weather Service in a statement.

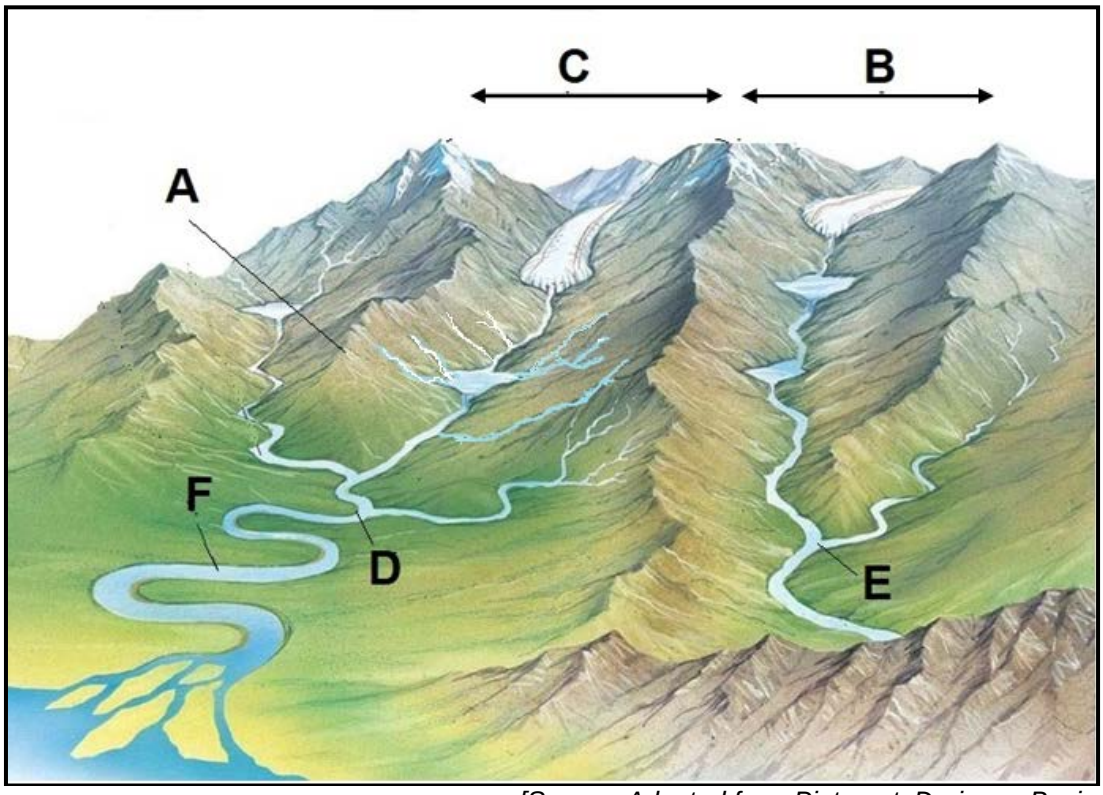
[Source:http://mg.co.za/article/207-02-16-tropical-cyclone-dineo-kills-four-in-mozambique]

FIGURE 1.4 VALLEY IN THE ALPS



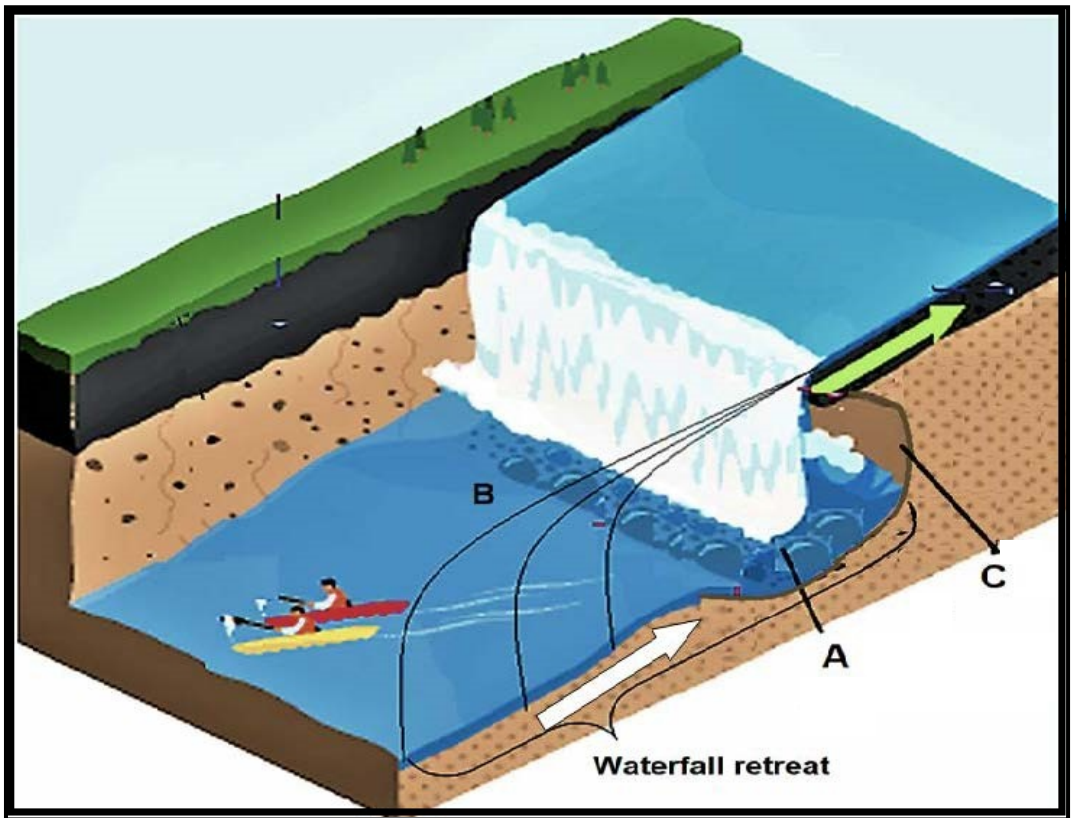
[Source: Adapted from www.stressdriven.com.gallery.eisten.switzerland]

FIGURE 1.5 DRAINAGE BASINS



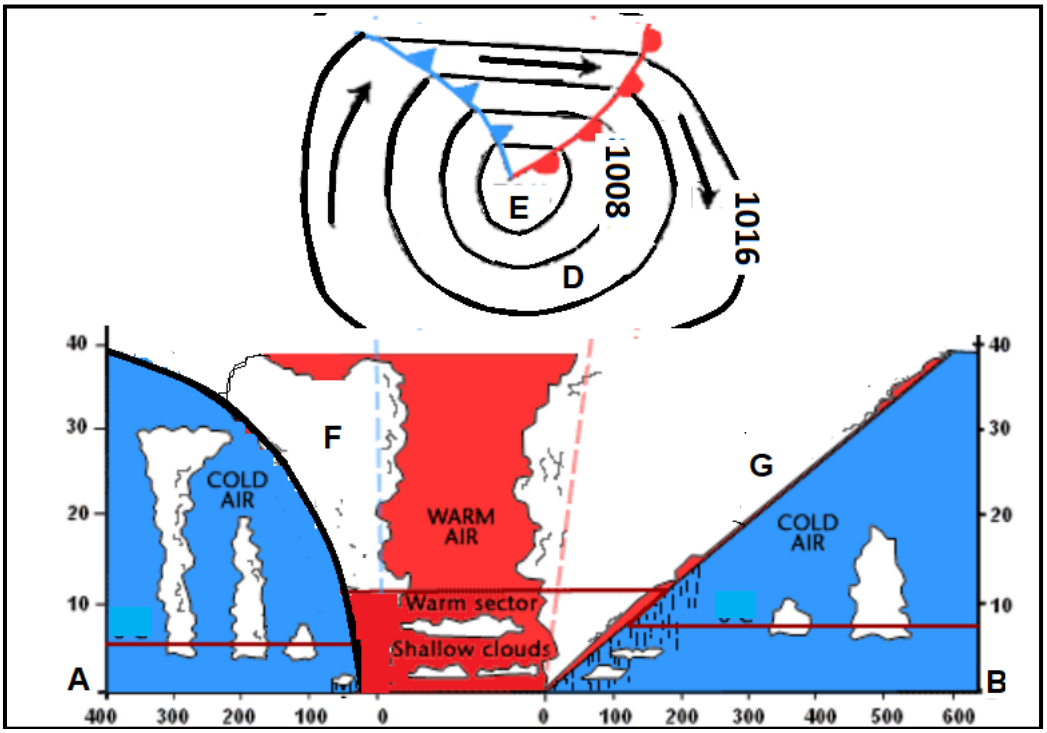
[Source: Adapted from Pinterest, Drainage Basins]

FIGURE 1.6 WATERFALL RETREAT



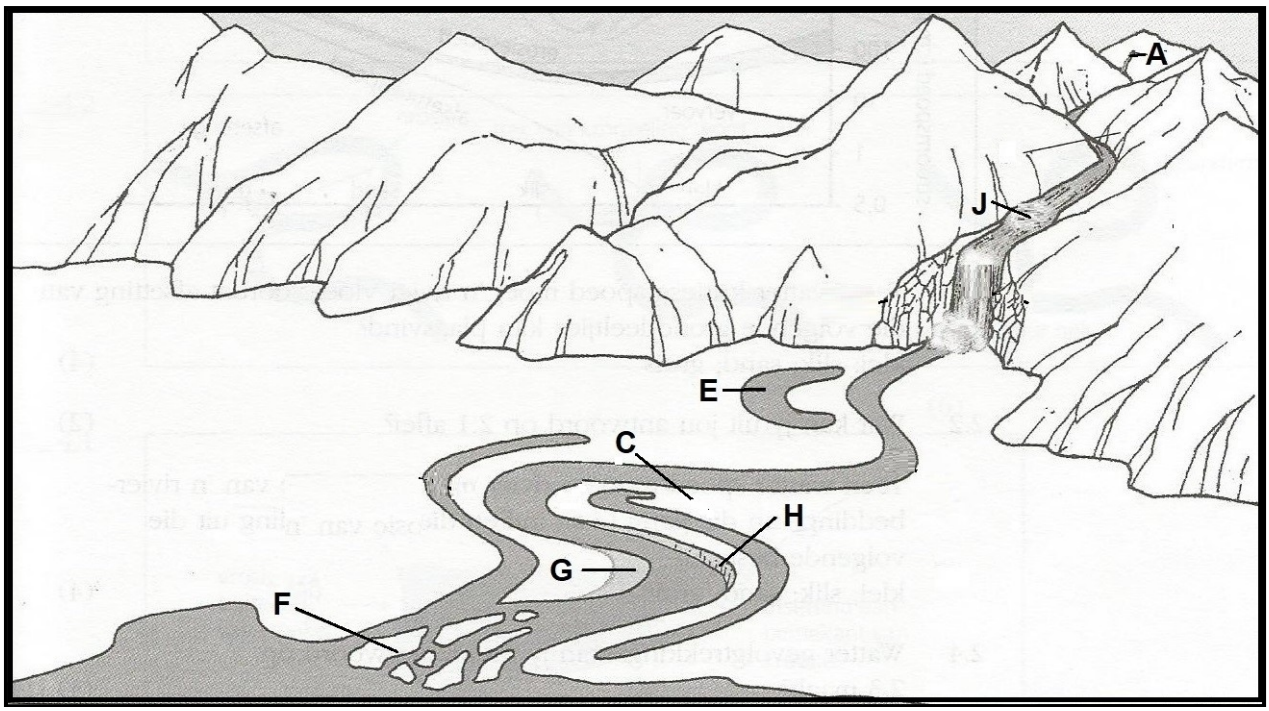
[Source: Adapted fromhttps://www.slideshare.net/.../geography-igcse-river-landforms]

FIGURE 2.1 MID-LATITUDE CYCLONE



[Source: www.metlink.org/secondary/a-level/weather-systems]

FIGURE 2.2 FLUVIAL LANDFORMS



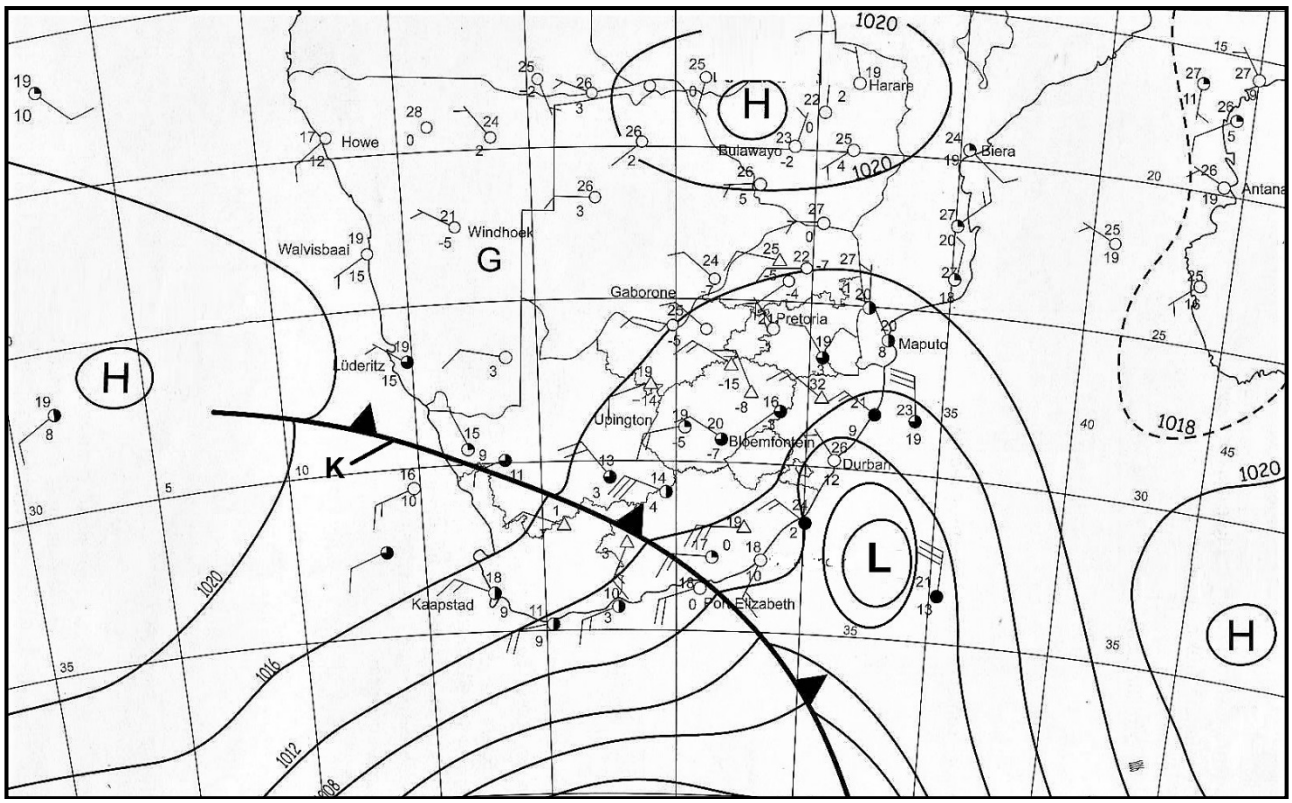
[Source: Examiner's own sketch]

FIGURE 2.3 A COMPARISON BETWEEN URBAN AND RURAL CLIMATE

Element	Urban Compared with Rural Environs	Element	Urban Compared with Rural Environs
Contaminants		**Temperature**	
Condensation nuclei	10 times more	Annual mean	0.5–3.0 C°
Particulates	10 times more	Winter minima (average)	1.0–2 C°
Gaseous admixtures	5–25 times more	Summer maxima	1.0–3 C°
Radiation		**Relative Humidity**	
Ultraviolet, winter	30% less	Annual mean	6% less
Ultraviolet, summer	5% less	Winter	2% less
Cloudiness		Summer	8% less
Clouds	5%–10% more	**Wind Speed**	
Fog, winter	100% more	Annual mean	20%–30% less
Fog, summer	30% more	Extreme gusts	10%–20% less
Precipitation		Calm	5%–20% more
Amounts	5%–15% more		
Thunderstorms	10%–15% more		

[Source: Adapted from https://climate.copernicus.eu/urbansis-climate-information-european-cities and H. E. Landsberg, The Urban Climate, International Geophysics Series, vol28]

FIGURE 2.4 SYNOPTIC WEATHER MAP

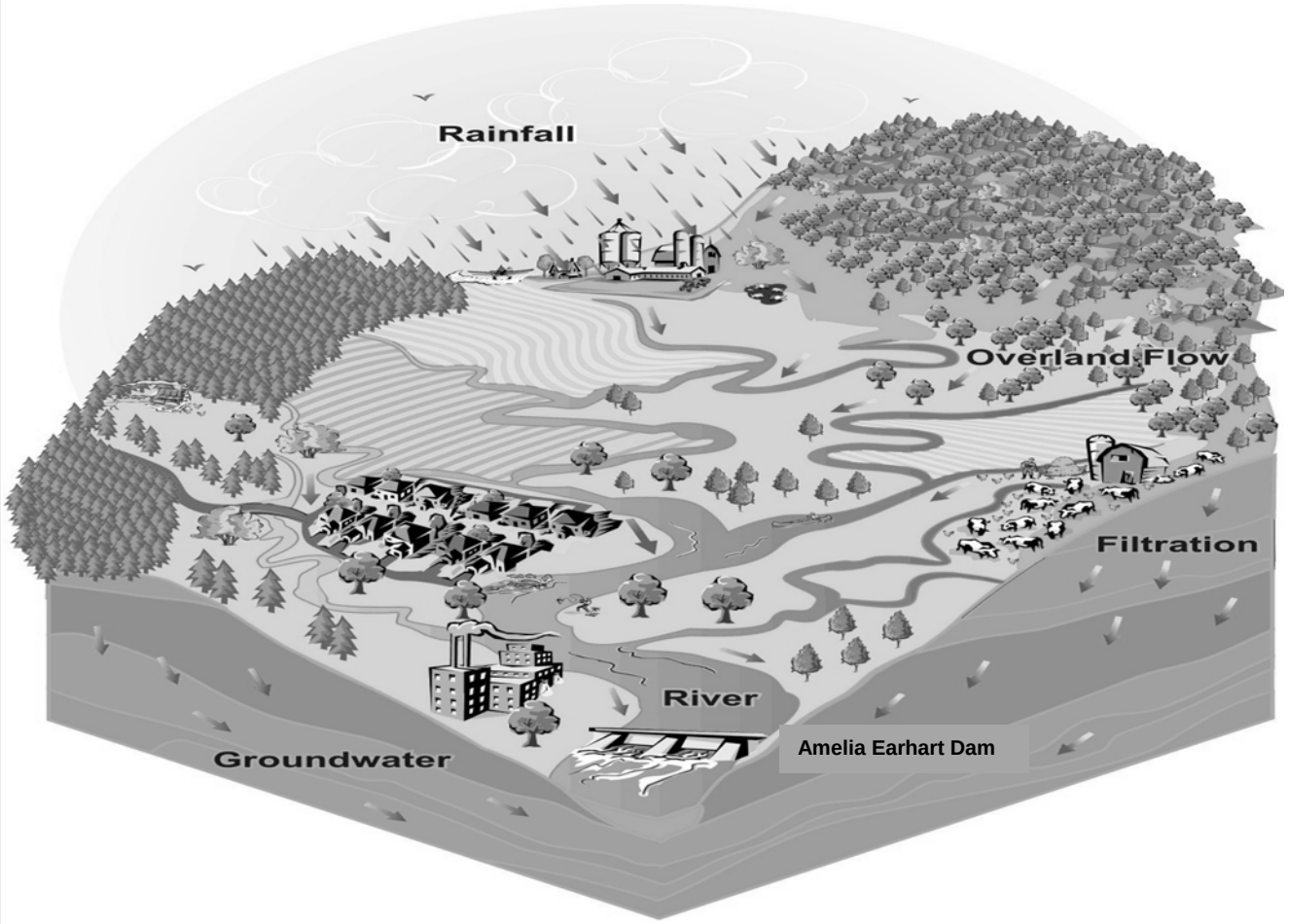


[Source: Adapted from: http://www.tpub.com/weather2/3-23.htm]

FIGURE 2.5 THE MYSTIC RIVER CATCHMENT AREA

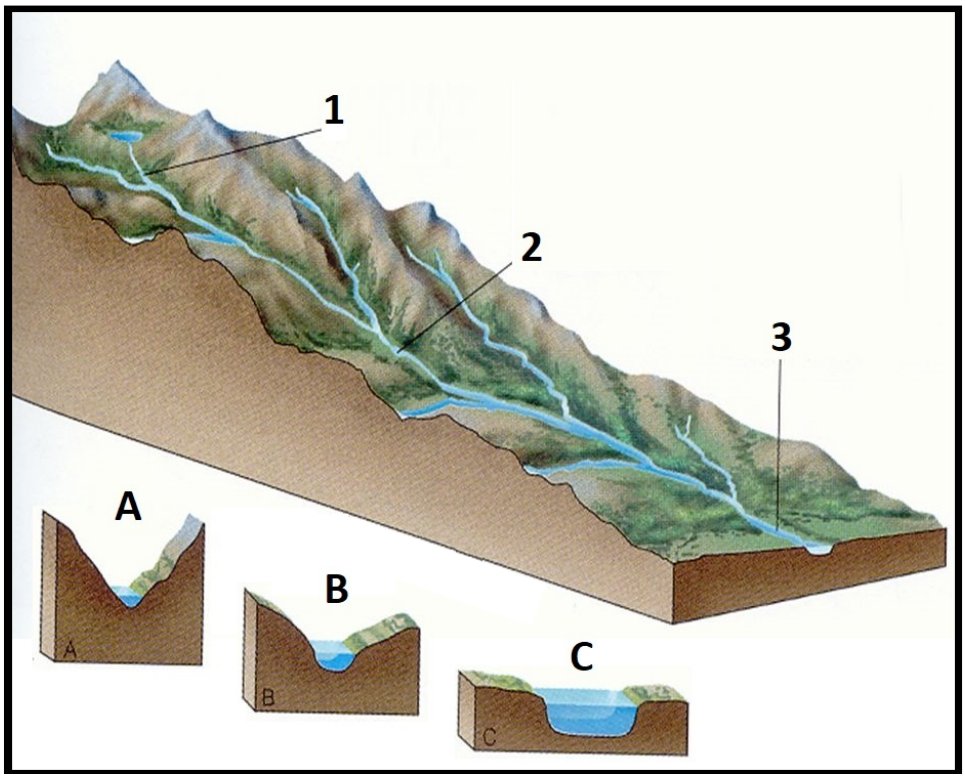
The Mystic River Catchment area covers 76 square kilometres. It includes all the land area that drains into the Mystic River. The "Lower Mystic River" refers to the area below the Amelia Earhart Dam (a dam found along the Mystic River) which consists of salt water. Whereas the "Upper Mystic River" refers to the freshwater area above the Amelia Earhart Dam. The Mystic River Catchment area is one of the most urban and densely populated catchment areas in the Commonwealth.

It has three Superfund sites (areas of hazardous waste) within its borders, and is home to various Environmental Justice communities. There are 44 lakes and ponds and 22 communities within the Mystic River Catchment area. The Mystic River Watershed Association (MyRWA) was established to protect and restore the Mystic River, its tributaries and catchment area for the benefit of present and future generations and to celebrate the value, importance and great beauty of these natural resources.



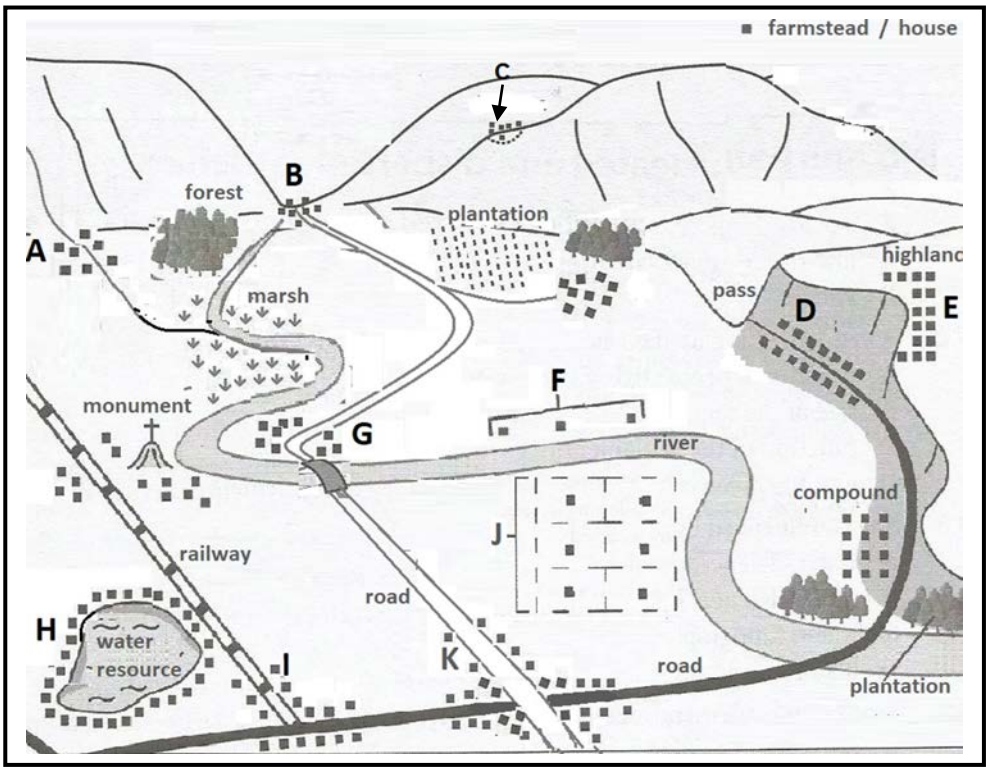
[Source: https://mysticriver.org/faqs]

FIGURE 2.6 RIVER PROFILE



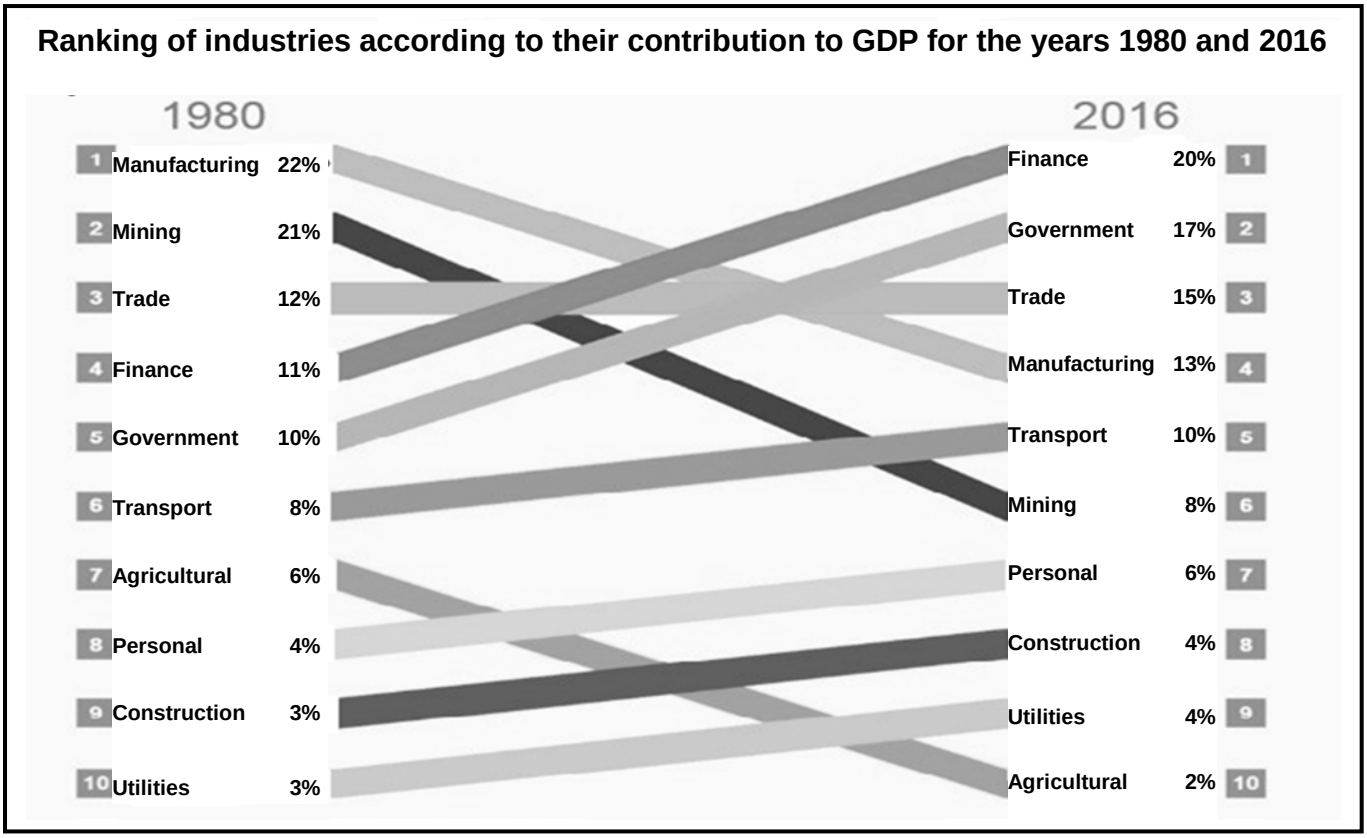
[Source: www.geography.learnontheinternet.co.uk › geotopics › rivers]

FIGURE 3.1 SETTLEMENTS



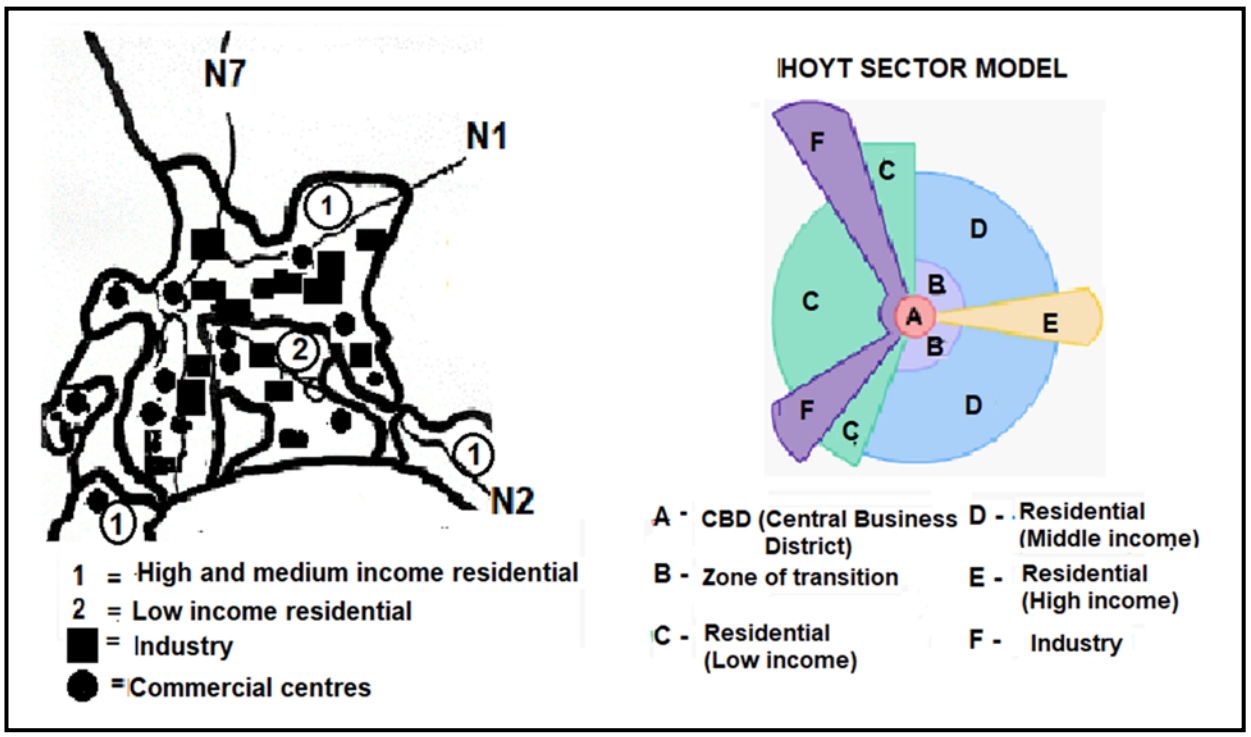
[Source: Examiner's own sketch]

FIGURE 3.2



[Source: http://www.statssa.gov.za/wp-content/uploads/2017/11/pic2.jpg]

FIGURE 3.3 LAND-USE MAP OF CAPE TOWN



[Source: https://www.s-cool.co.uk/a-level/geography/urban-profiles/revise-it/models-from-burgess-and-hoyt
Oxford South Africa Thematic Atlas for grades 10-12]

FIGURE 3.4 CASE STUDY OF DAVENPORT, A CHANGE IN LAND-USE

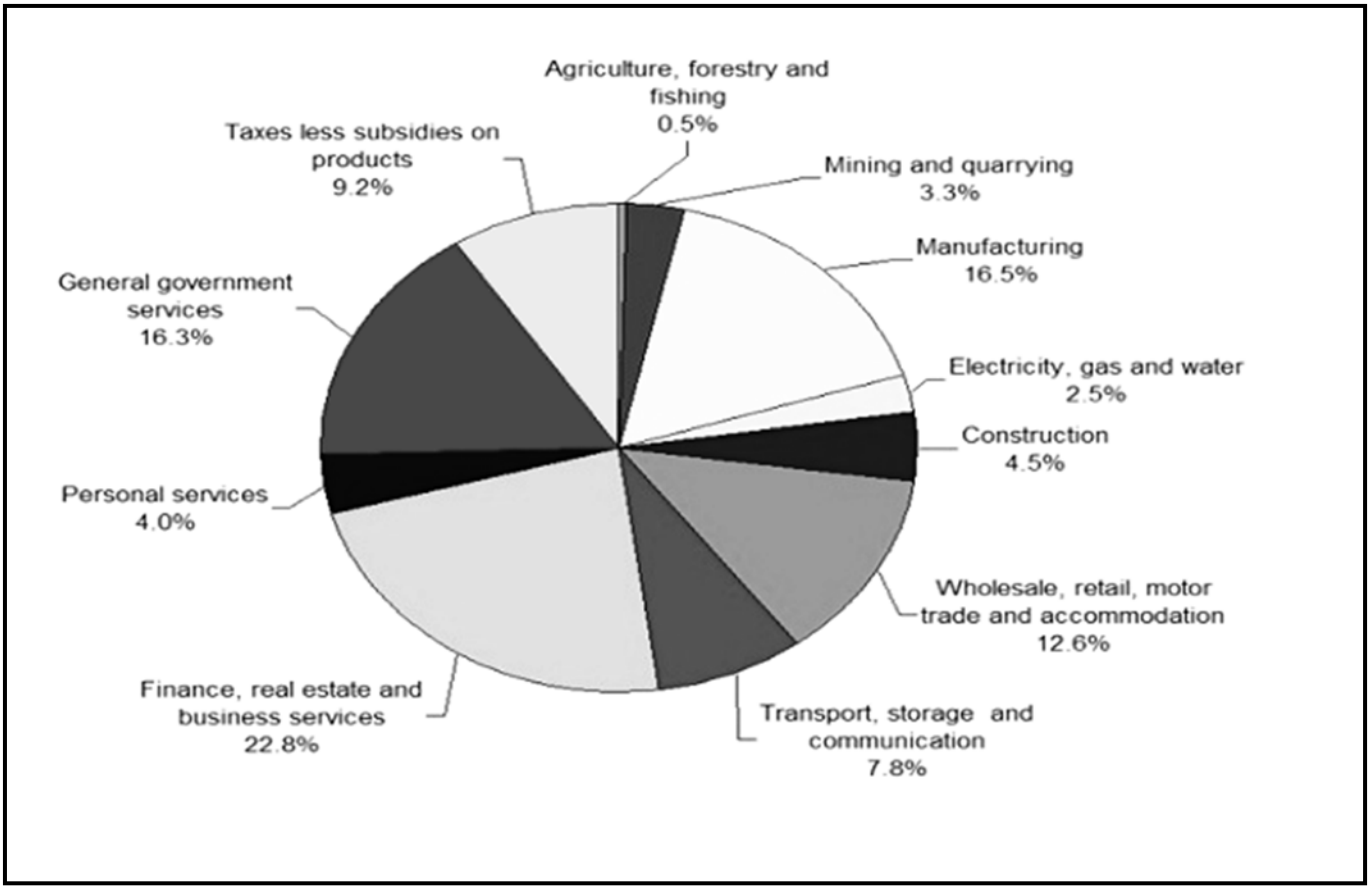
The residential area bordering Davenport Square has undergone changes in land use in the last few decades. What were previously family homes have now been turned into businesses.

Davenport Square is a community shopping destination centrally located in Glenwood residential area and within a short distance of the Berea, Morningside and Durban CBD. This is a popular shopping centre and benefits from good road accessibility and high pedestrian traffic.

Davenport Square lies in the heart of Berea and has established itself as the favourite shopping centre in Glenwood, offering its customers convenience for more than 50 years. With over 35 stores to choose from, the centre functions as a one-stop convenience destination, where the typical Glenwood customer can purchase their necessities and more.

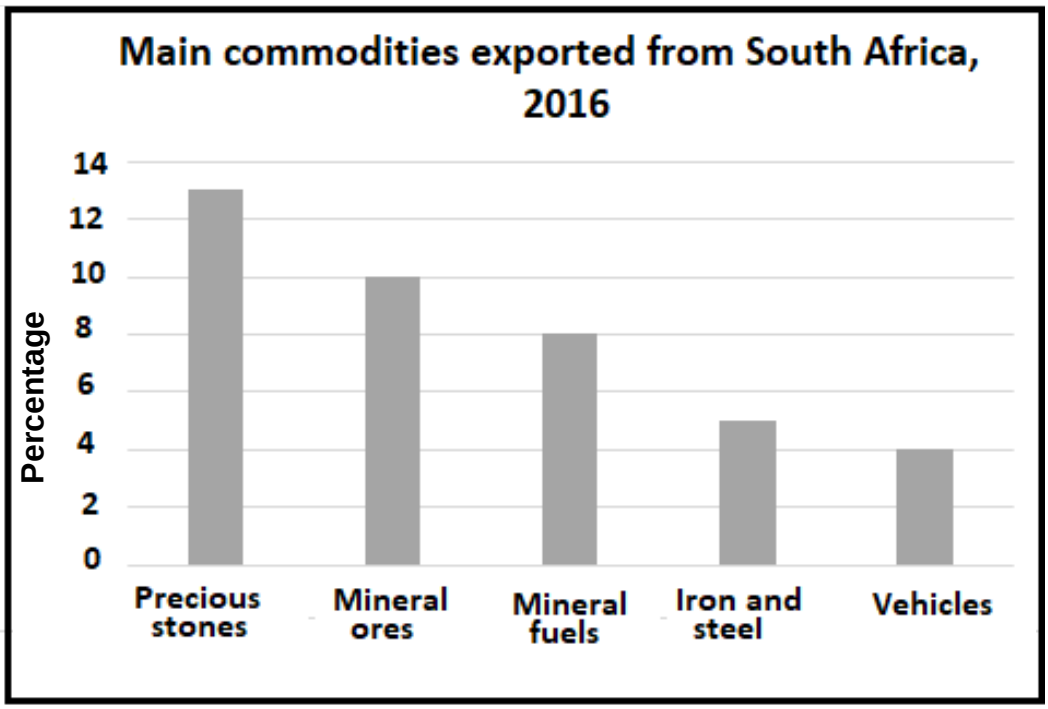
[Source: http://www.davenportsquare.co.za/http://www.portfolio-property.com/properties/view/id/555]

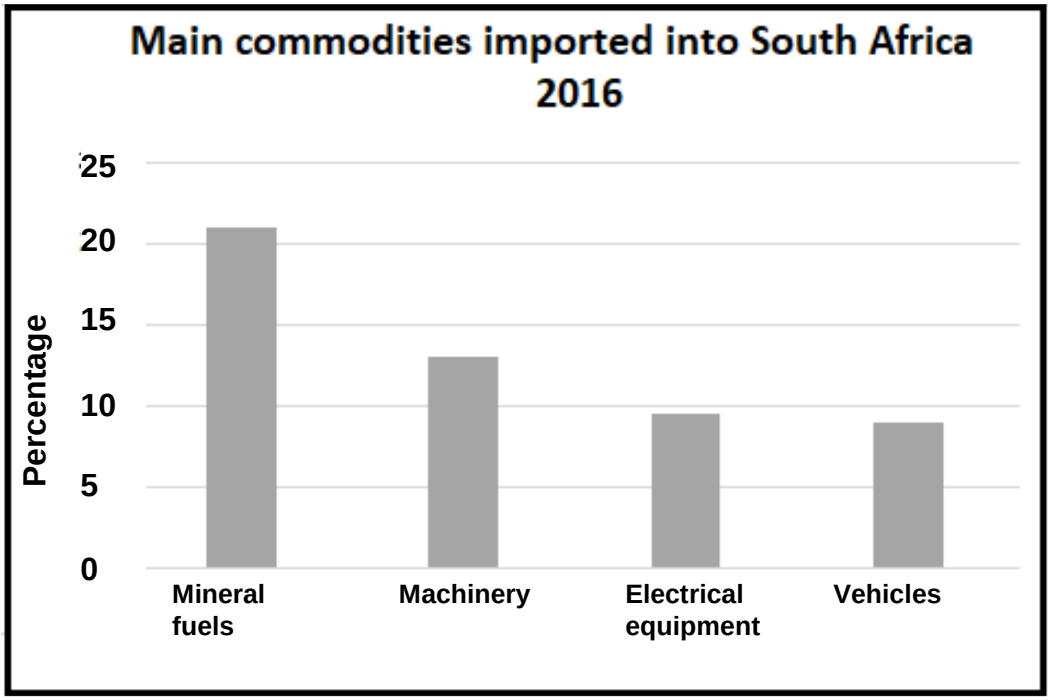
FIGURE 3.5 KEY FACTORS CONTRIBUTING TO THE ECONOMY OF THE PWV (GAUTENG) INDUSTRIAL REGION



[Source: https://www.slideshare.net/lecordeur1/a-plan-for-the-gauteng-city-region-towards-vision-2030]

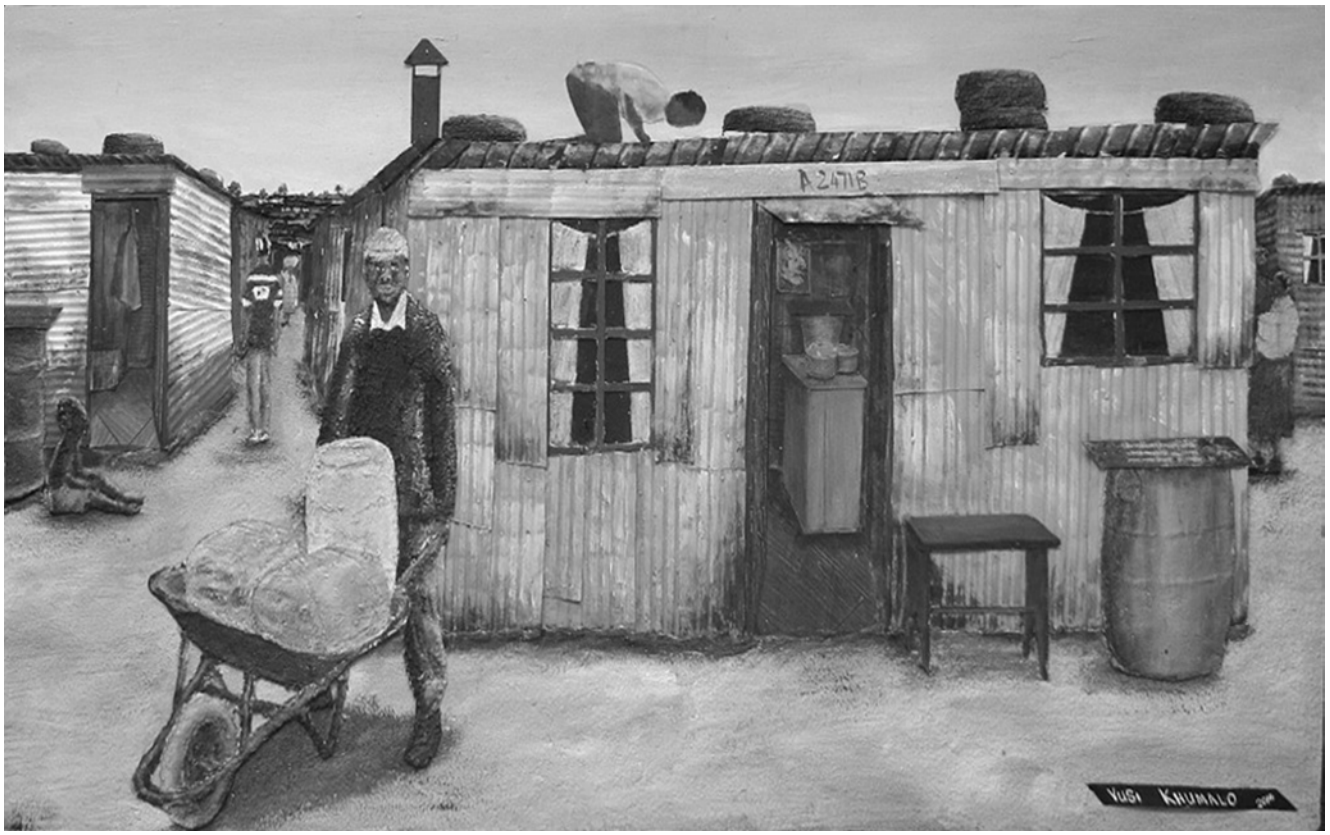
FIGURE 3.6 MAIN IMPORTED AND EXPORTED COMMODITIES IN SOUTH AFRICA, 2016.





[Source: Platinum Atlas Gr 8-12]

FIGURE 4.3 INFORMAL SETTLEMENT



[Source: www.everard-read-capetown.co.za/artist/VUSI_KHUMALO/works/446]

FIGURE 4.4 PILGRIM'S REST TO "SHUT DOWN"

Pilgrim's Rest to 'shut down' 2012-07-05 09:18

Seventeen businesses in Pilgrim's Rest, Mpumalanga, have been ordered to close by the end of the month.

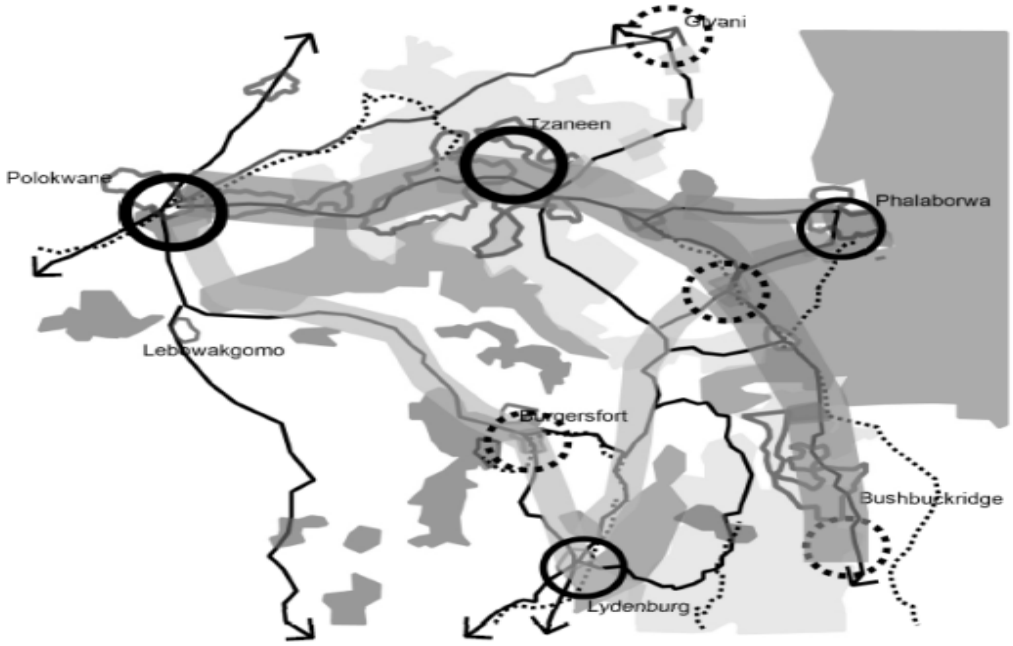
The provincial department of public works, road and transport issued the businesses with eviction orders on Friday, giving them 31 days to close.

The historic gold mining town's architecture had remained unchanged since the 1800s and it was declared a national monument in 1986. It was run by the Department of Public Works, and business owners leased properties.

Tourism was the backbone of the town's economy and provided employment to residents of Schoonplaas. The decrease in tourism has had a negative impact on the town's economy.

[Source: https://www.news24.com/Travel/South-Africa/Pilgrims-Rest-to-shut-down-20120705]

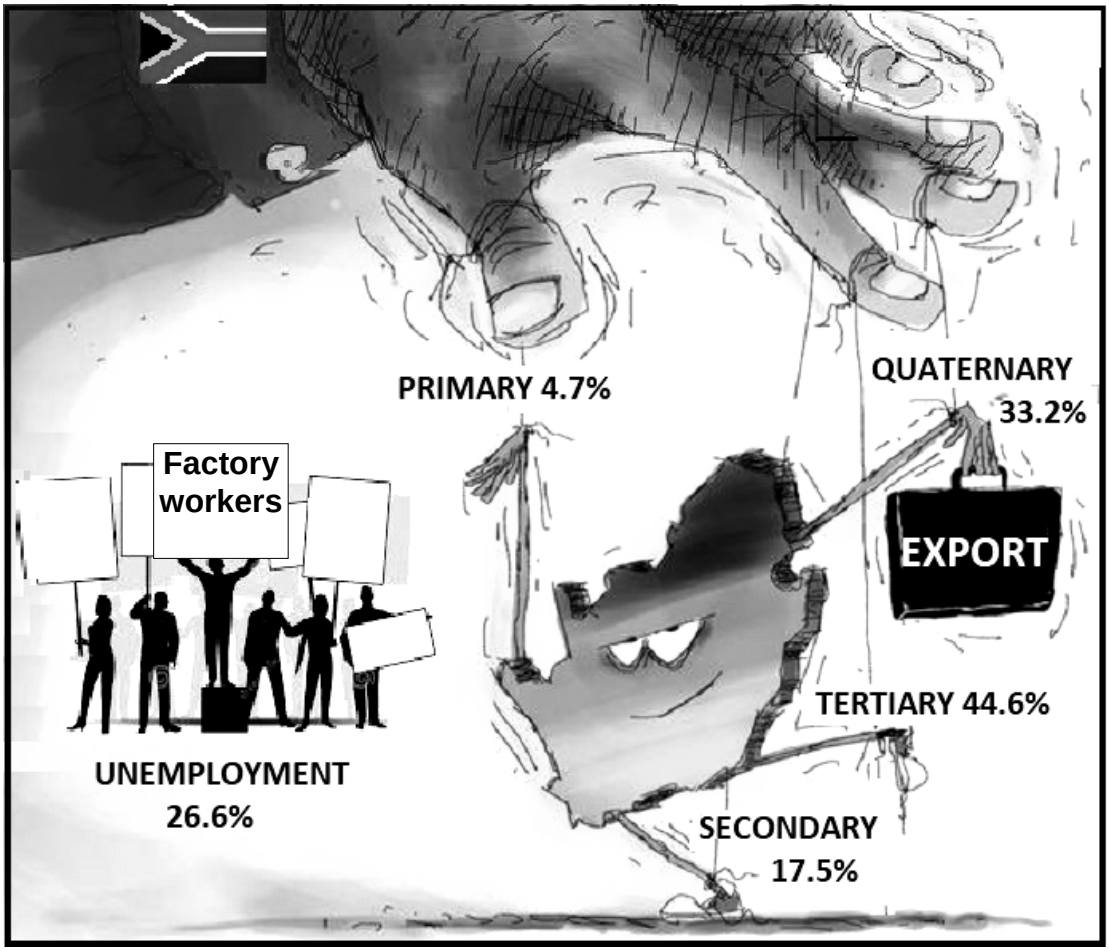
FIGURE 4.5 THE PHALABORWA SDI



This corridor is particularly well endowed with mineral deposits with a number of mining operations already underway. The corridor also offers opportunities in eco-tourism and game farming due to its proximity to the Kruger National Park. The SDI is focused along the main road link from Phalaborwa in the Limpopo Province, to Nelspruit in the Mpumalanga Province, where the SDI joins the Maputo Development Corridor. The aim of the corridor was to create better access between the port of Maputo and the mining activity around Phalaborwa. The Development Bank of South Africa initially identified potential projects and initiatives in the SDI based on the mining, agriculture and tourism sectors. The district municipality is in the process of developing a Land Use Management System and all the locals are expected to do the same.

[Source: http://www.safiri.co.za/lpfdb/authorities-mopani.html]

FIGURE 4.6 EMPLOYMENT IN THE ECONOMIC SECTORS OF SOUTH AFRICA



[Source: Adapted from http://umich.edu/~snre492/South%20African%20environmental%20justice%20case%20study_files/image003.gif]

END