

NATIONAL SENIOR CERTIFICATE

GRADE 12

SEPTEMBER 2012

GEOGRAPHY P1 MEMORANDUM

MARKS: 300

This memorandum consists of 15 pages.

SECTION A: PHYSICAL GEOGRAPHY: CLIMATE AND WEATHER, FLUVIAL PROCESSES AND STRUCTURAL LANDFORMS

QUESTION 1

1.1	1.1.1 1.1.2 1.1.3 1.1.4 1.1.5		(5 x 2)	(10)
1.2	1.2.1 1.2.2 1.2.3 1.2.4 1.2.5	Turbulent flow $\sqrt{}$ Undergraded $\sqrt{}$ Buttes $\sqrt{}$ Saltation $\sqrt{}$ Antecedent drainage $\sqrt{}$	(5 x 2)	(10)
1.3	1.3.1	 Cloud cover: clear √√ Wind direction: SSW/S √√ Wind speed: 20 knots √√ Air temperature: 19 °C √√ Dew point: 3°C √√ 	(Any 2 x 2)	(4)
	400		,	(-)
	1.3.2	Mid-latitude cyclone / wave cyclone / extra tropical cyclopression $\sqrt{}$	(Any 1 x 2)	(2)
	1.3.3	Mature stage $\sqrt{}$	(1 x 2)	(2)
	1.3.4	• Distinct low pressure centre with distinctive cold fronts. $\sqrt{}$	and warm	
		• Warm sector depression $\sqrt{}$	(Any 1 x 2)	(2)
	 The Continental High pressure cell is well developed and is associated with subsiding and diverging air. √√ Results in low temperatures, clear skies and dry conditions. √√ Smog and mist are often trapped over the interior. √√ Moist air from the east coast is prevented from reaching the plateau, thus dry winter conditions prevail. √√ (Any 2 x 2) 		conditions. $\sqrt{}$	(4)
	1.3.6	The cold front brings winter rainfall to the South Western Cape and this is ideal for vineyards and deciduous fruit cultivation. √√ Heavy downpours associated with the approaching cold fronts cause serious floods that damage crops and property. √√ When the cold front approaches it may result in the formation of snow on the Cape Fold Mountains. √√ Snow damage crops and livestock are killed and send icy cold air over the interior. √√ Snow falls over the mountains attract tourists thus boosting the economy. √√ During frontal storms strong winds and high seas occur posing a hazard to the shipping industry. √√		

The fishing industry suffers loses as a result of the strong winds and high seas. $\sqrt{\sqrt{}}$ Extensive rain that lasts for weeks can make flooding worse and leads to deaths in the worst affected areas. $\sqrt{\sqrt{}}$ Flooding can lead to health hazards in poorer areas e.g. cholera or typhoid. $\sqrt{\sqrt{}}$ (12)(Any 6 x 2) 1.4 1.4.1 It faces the sun. $\sqrt{\sqrt{}}$ Thermal belt $\sqrt{}$ It is warmer. $\sqrt{\sqrt{}}$ (Any 1 x 2) (2) 1.4.2 • Frost forms at the bottom of the valley as cold air sinks. $\sqrt{\sqrt{}}$ • Frost damages plants and crops. $\sqrt{\sqrt{}}$ • Farmers will plant frost-resistant crops at the bottom of the valley. √√ (Any 1 x 2) (2)1.4.3 **Cultivated land** • On the north-facing slope receive more direct sun and more sun in winter. $\sqrt{1}$ Winter sun promotes the growth and ripening of winter crops e.g. cultivated land. $\sqrt{\sqrt{}}$ Soil is hot and drier but the rivers provide water for irrigation. $\sqrt{\sqrt{}}$ (Any 1 x 2 = 2)**Trees** Trees on the south-facing slope receive less direct sun and less sun during winter. $\sqrt{\sqrt{}}$ • Soil is cool and damp so trees grow well. $\sqrt{\sqrt{}}$ (Any 1 x 2 = 2)(4) Clear, calm cold winter night $\sqrt{\sqrt{}}$ 1.4.4 Top of mountain cools (lose heat) because of terrestrial radiation. $\sqrt{\sqrt{}}$ Cold air sinks to the bottom of the valley. $\sqrt{\sqrt{}}$ Air at the bottom of the valley is warmer and rises to replace sinking cold air. $\sqrt{\sqrt{}}$ Air is now warmer in the middle of the valley called thermal (Any 3 x 2)(6) The volume of water that flows past a point at a certain time. $\sqrt{\sqrt{}}$ 1.5 1.5.1 The amount of water that flows in a river over time. $\sqrt{\sqrt{}}$ (Any 1 x 2) (2) 1.5.2 b Infiltration less infiltration √ more infiltration √ Runoff more runoff √ less runoff √ 1.5.2 (2×2) (4) 1.5.3 (a) Long lagtime is **b** $\sqrt{\sqrt{}}$ (2)

1.5.4 • Urban areas have less vegetation. $\sqrt{\sqrt{}}$

(b)

High discharge peak is **a**. $\sqrt{\sqrt{}}$

• Concrete and tar surfaces in urban areas prevent infiltration. $\sqrt{\sqrt{}}$

• Rivers are confined to canals. $\sqrt{\sqrt{ }}$ (Any 2 x 2)

(2)

GEOGRAPHY P1 (SEPTEMBER 2012)

1.6 1.6.1 **HUMAN ACTIVITIES**

Pollution such as chemicals from farming, mining and industry, and sewage and rubbish from informal settlements. $\sqrt{\sqrt{}}$

Planting alien vegetation clogs up rivers and other water resources and reduces water supply for indigenous plants. $\sqrt{\sqrt{}}$

Irrigation and building of dams lowers the water table, dries up rivers, change the flow characteristics of rivers and delays runoff. √√

Removing vegetation reduces infiltration and increases runoff, soil erosion occurs and more silt goes into rivers. $\sqrt{\sqrt{}}$

Construction of roads, railway lines and settlements damage wetlands. $\sqrt{\sqrt{}}$

Poor farming practices e.g. overgrazing causes soil erosion clogs rivers and changes their course. $\sqrt{\sqrt{}}$

Urbanisation creates artificial surfaces that results in greater runoff, flash floods and increase river discharge. $\sqrt{\sqrt{}}$

Commercial forestry uses too much water. $\sqrt{\sqrt{}}$

Energy generation at coal power stations uses a lot of water. $\sqrt{\sqrt{}}$

(Any 3 x 2 = 6)

MANAGEMENT

Clear alien plants. $\sqrt{\sqrt{}}$

Do not build settlements on flood plains. $\sqrt{\sqrt{}}$

Do an environmental impact assessment before building dams. $\sqrt{\sqrt{}}$ Preserve indigenous forests to protect ground water $\sqrt{\sqrt{}}$

Use renewable energy sources. $\sqrt{\sqrt{}}$

(Accept other reasonable answers.)

(Any 3 x 2 = 6)(12)

 (1×2)

1.7 Cuesta √√ 1.7.1

- 1.7.2 Contain rock layers of different resistance that erode at different rates. √√
 - Rock layers are tilted at an angle by folding or warping. $\sqrt{\sqrt{}}$
 - Gentle dip slope and steep scarp slope $\sqrt{\sqrt{}}$
 - Asymmetrical in appearance (profile) $\sqrt{\sqrt{}}$ (Any 2 x 2) (4)
- 1.7.3 A. crest $\sqrt{-}$ has a convex slope $\sqrt{-}$
 - B. scarp / cliff / free-face $\sqrt{-}$ steep slope $\sqrt{-}$
 - C. tallus slope where debris collects $\sqrt{}$ (3×2) (6)
- 1.7.4 No. √

Soil tends to be too shallow. $\sqrt{}$

(1 + 1)(2)

[100]

(2)

QU	ES	TI	Ol	N	2
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2.2 2.2.1 A $\sqrt{}$ 2.2.2 B $\sqrt{}$ 2.2.3 D $\sqrt{}$ 2.2.4 E $\sqrt{}$	
 2.2.2 B √√ 2.2.3 D √√ 2.2.4 E √√ 2.2.5 C √√ 2.3.7 (5 x 2) 2.3.8 Moisture from the warm Indian Ocean. √√ Coriolus force, therefore develops at 5° – 30° south of the equator. √√ Coriolus force, therefore develops at 5° – 30° south of the equator. √√ Damage to infrastructure, roads, railway lines, bridges, homes etc. due to strong winds, heavy rainfall and floods. √√ Vegetation and crops washed away or damaged that effects food supply. √√ Loss of employment and poverty increases. √√ Destruction of agricultural land and crops lead to food shortages. √√ Insurance companies suffer heavy losses because large amounts of money being paid out. √√ (Any 2 x 2) 2.3.4 Westward / east to west √√ Away from the equator. √√ (Any 1 x 2) Encounters land surfaces – there is less moisture. √√ Friction with land decreases windspeed. √√ (Any 1 x 1) 	(5 x 2) (10)
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Friction with land decreases windspeed. $\sqrt{}$ (Any 1 x 1)	Any 1 x 2) (2)
2.4 2.4.1 Line thunderstorms $\sqrt{}$ (1 x 2)	Any 1 x 1) (2)
	(1 x 2) (2)
2.4.2 Warm moist air from the Indian Ocean $$ meets cold dry air from the Atlantic Ocean in the interior of the country. $$ (2 x 1)	

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	2.4.3	They bring large amount of rainfall to the interior that enfarmers to grow crops e.g. maize and people to have from water. $\sqrt{}$ The latent heat energy released during condensation and energy from lightning transfer energy in the atmosphere Lightning can cause veld fires and even kill people. $\sqrt{}$ Lightning returns nitrates to the soil and some plants not o grow. $\sqrt{}$ Hailstorms can damage property. $\sqrt{}$ Hailstorms can damage crops that decrease yields that food supply. $\sqrt{}$ Large amounts of rainfall causes floods. $\sqrt{}$ Outbreak of diseases like cholera and typhoid because floods. $\sqrt{}$	resh and electric e. √√ eeds nitrates t affect the	
		(Accept other reasonable answers.)	(Any 6 x 2)	(12)
2.5	2.5.1	Urban heat island effect characterised by warm city censurrounded by cooler suburban or rural areas. $\sqrt{\vee}$	ntres (1 x 2)	(2)
	2.5.2	At night $\sqrt{}$ Early morning $\sqrt{}$	(Any 1 x 1)	(1)
	2.5.3	 Artificial surfaces e.g. tar and concrete absorbs heat Glass windows and concrete walls of buildings supparea to reflect heat. √√ Many sources of artificial heat in cities e.g. factories engines etc. √√ Pollution and carbon dioxide traps in the heat. √√ Less evaporation because of fewer water surfaces to away. √√ Tall buildings reflect the sun's rays between the buildings of the properties of the sun's rays between the buildings of the properties. 	oly large s, car to carry heat	(4)
	2.5.4	During the week. $\sqrt{}$ There is more traffic. $\sqrt{}$ There are more human and industrial activities. $\sqrt{}$	(Any 2 x 2)	(4)
	2.5.5	 By planting plants and establishing green belts. √√ Creating water ponds for evaporation. √√ Design buildings with heat-reflecting surfaces. √√ (Accept others.) 	(Any 1 x 2)	(2)
2.6	2.6.1	 (a) B or C √ (b) E √ (c) C √ 	(3 x 1)	(3)

	2.6.2	Dam $\sqrt{}$ Waterfall $\sqrt{}$ Resistant band of rock $\sqrt{}$	(Any 1 x 1)	(1)	
	2.6.3	Steep gradient. $\sqrt{}$ Deep and narrow cross profile with steep sides. $\sqrt{}$	(2 x 2)	(4)	
	2.6.4	→ √√	(1 x 2)	(2)	
2.2	2.7.1	Waterfall √√	(1 x 2)	(2)	
	2.7.2	 A. misfit stream / beheaded stream √ B. windgap √ C. elbow √ 	44 4	(4)	
		D. pirate stream / captor stream √	(4 x 1)	(4)	
	2.7.3	Undergraded because it loses energy. $\sqrt{}$	(1 x 2)	(2)	
	2.7.4	Change in base level $\sqrt{}$ The captor river gains new energy $\sqrt{}$ And vertical eroding power $\sqrt{}$	(Any 2 x 2)	(4)	
2.8	2.8.1	D / pediment $\sqrt{}$	(1 x 2)	(2)	
	2.8.2	Knickpoint $\sqrt{}$ A sharp change in gradient $\sqrt{}$ A point where the tallus slope and pediment meets. $\sqrt{}$	(Any 1 x 2)	(2)	
	2.8.3	(a) Soil creep √(b) Rockfalls √	(2 x 1)	(2)	
	2.8.4	 NATURAL FACTORS Steep slopes √√ Heavy rains √√ Water-saturated soil √√ Poor vegetation cover / bare slopes √√ Earthquakes √√ 	(Any 3 x 2 = 6)		
		 HUMAN ACTIVITIES Clearing of vegetation from slopes / deforestation. √√ Building on steep slopes √√ Cutting roads which weaken natural rock structures √√ Wearing footpaths down slope √√ Overstocking on steep slopes in dry areas results in soil erosion. √√ Diggings – quarries and mines √√ (Any 3 x 2 = 6) 			

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SECTION B: PEOPLE AND PLACES, PEOPLE AND THEIR NEEDS, WATER AND FOOD SECURITY

QUESTION 3

3.1	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5	A (urban profile) $\sqrt{}$ G (situation) $\sqrt{}$ D (centripetal forces) $\sqrt{}$ I (metropolis) $\sqrt{}$ B (urban expansion) $\sqrt{}$	(5 x 2)	(10)
3.2	3.2.1 3.2.2 3.2.3 3.2.4 3.2.5	Greenfield sites $\sqrt{}$ Gross Domestic Product $\sqrt{}$ Decentralisation $\sqrt{}$ Balance of trade $\sqrt{}$ Protectionism $\sqrt{}$	(5 x 2)	(10)
3.3	3.3.1	P – nucleated / village / cluster √ Q – dispersed / isolated / farmstead √	(2 x 1)	(2)
	3.3.2	 Farmers live and work in isolation. √√ Security problem caused by living alone / crime. √√ No pooling of resources. √√ 		, ,
		 No exchange of ideas. √√ 	(Any 2 x 2)	(4)
	3.3.3	Linear / ribbon √	(1 x 1)	(1)
	3.3.4	Maximum use of agricultural land. $\sqrt{\sqrt}$ Involving the growing of a variety of crops in a small as space. $\sqrt{\sqrt}$	rea / (Any 1 x 2)	(2)
	3.3.5	 Water from river for irrigation of crops. √√ Fertile soil on flood plain. √√ Good infrastructure – roads, rail etc. √√ Flat land / gentle slope for use of machinery. √√ 	(Any 2 x 2)	(4)
	3.3.6	 Damage to crops and farmland. √√ Accumulation of soil and rocks in river will impede to supply of water to farmland. √√ Will lower the water table. √√ Flash flooding – farms will be flooded. √√ 	he flow and (Any 1 x 2)	(2)
3.4	3.4.1	Semi-circular shape √	(1×1)	(1)
0.7	3.4.2	 Near harbour for import and export. √√ Has good transport network – road and rail. √√ Large city serve as ready market. √√ Water supply from nearby river. √√ Labour supply from residential area is located close 		(4)

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3.4.3	 Buildings are in a state of disrepair. √√ With industries moving out houses has become derelict. √√ Vandalism and graffiti is a major problem. √√ Owners do not renovate or maintain the buildings. √√ Is an area of mix land use e.g. industrial, residential and wholesalers. √√ Attracts a lot of low income immigrants. √√ Associated with twilight activities e.g. drugs, crime, etc. √√ (Any 1 x 2) 	(2)
3.4.4	Urban boundary has moved – 1970 to 1990 $\sqrt{}$ Establishment of satellite towns $\sqrt{}$ (Any 1 x 2)	(2)
3.4.5	A zone on the boundary of an urban settlement set aside for vegetation, gardens, woodland, etc. $\sqrt{\sqrt{}}$ (1 x 2)	(2)
3.4.6	 The CBD is centrally located. √√ Transport routes converge on the CBD. √√ (Any 1 x 2) 	(2)
3.4.7	PROBLEMS	
	Traffic and pedestrian congestion. $\sqrt{}$ Air and noise pollution $\sqrt{}$ High land values and prices resulted in intensive use of space. $\sqrt{}$ Overcrowding – people and cars $\sqrt{}$ Increase in crime rate and urban decay. $\sqrt{}$ (Any 3 x 2 = 6)	
	SOLUTIONS	
	Decentralise businesses and industries away from city centre. $$ Establishment of new towns / satellite towns. $$ Establishment of green belts. $$ Encourage the use of public transport – setting of low tariffs. $$ Construction of road by-passes to divert traffic away from city centre. $$ Synchronised robots to ensure easy flow of traffic. $$ Introduce underground transport e.g. tube trains. $$ Stagger working hours to avoid overcrowding and congestion. $$ Make shopping hours more flexible e.g. Sundays and public holidays. $$ Organise lift clubs to avoid too many vehicles converging on city centre. $$ Construct multi-storey and underground parking garages. $$ More visible policing. $$ (Any 3 x 2 = 6)	(12)
3.5.1	A – Gauteng / PWV √ C – PE/ Uitenhage / Nelson Mandela Metropole √ (2 x 1)	(2)

3.5

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3.5.2 A. Gauteng

Rich in raw materials and minerals $\sqrt{\sqrt{}}$

Good power supply $\sqrt{\sqrt{}}$

Good water supply $\sqrt{\sqrt{}}$

Skilled and unskilled labour $\sqrt{\sqrt{}}$

Access to local and international markets $\sqrt{\sqrt{}}$

Good transport infrastructure $\sqrt{\sqrt{}}$

(Any 1 x 2 = 2)

C. PE/Uitenhage

Easily accessible because of harbours – PE and Coega $\sqrt{\sqrt{}}$

Skilled and unskilled labour $\sqrt{\sqrt{}}$

Access to large markets √√

Sufficient water supply to the area $\sqrt{\sqrt{}}$

Raw materials are found locally $\sqrt{\sqrt{}}$

Known for the assembly of cars – car parts imported $\sqrt{\sqrt{}}$

Good railway and road infrastructure $\sqrt{1}$ (Any 1 x 2 = 2)(4)

3.5.3 B. Richards Bay SDI / Durban ID initiative $\sqrt{\sqrt{}}$

D. Saldanha Bay SDI $\sqrt{\sqrt{}}$

 (2×2)

(4)

- 3.5.4 Health risk associated with locating people close to a chemical plant or refinery. $\sqrt{\sqrt{}}$
 - Families are separated as a consequence of migrant labour system. √√
 - Poverty levels rise as a result of the closure of economic activities. √√
 - Forced the removal of people from their homes. $\sqrt{\sqrt{}}$
 - Globalisation caused the customs and traditions of people to become lost. $\sqrt{\sqrt{}}$
 - Rural-urban migration led to economic decline in rural areas as schools and shops close and agricultural production decreases. √√
 - Services in urban areas under severe strain due to the influx of migrant workers and rural inhabitants. $\sqrt{\sqrt{}}$ (Any 2 x 2) (4)

REASONS FOR DEVELOPMENT 36 361

Relative poverty and lack of money $\sqrt{\sqrt{}}$

Lack of skills and education $\sqrt{\sqrt{}}$

High unemployment levels $\sqrt{\sqrt{}}$

Migration of rural women into urban areas $\sqrt{\sqrt{}}$

A slump in the economy has caused job losses in the formal sector forcing workers to seek casual work $\sqrt[4]{\sqrt{}}$

Mechanisation of farming operations and climatic hazards caused unskilled rural dwellers to search for jobs in the informal sector in urban areas. √√

Large companies sub-contract to informal sector to avoid regulations related to job security. $\sqrt{\sqrt{}}$

During apartheid Blacks were not permitted to trade in urban areas and were only granted licences for hawking and peddling which restricted traders to townships. $\sqrt{\!\!\!\!/}$

Immigrants are not able to find legal employment and enter informal sector to survive. $\sqrt{\sqrt{}}$ (Any 3 x 2 = 6)

CHALLENGES / PROBLEMS

The informal sector does not provide a permanent solution to unemployment. $\sqrt{\sqrt{}}$

Retailing and personal services that the informal sector provides are not a sustainable means of generating money. $\sqrt{\sqrt{}}$ Many informal traders sell products that are not sustainable resources. $\sqrt{\sqrt{}}$

Traders are frequently harassed by local authorities because their activities are illegal. $\sqrt{\sqrt{}}$

Hawkers do not have access to proper trading facilities therefore they are forced to trade on bare pavements and are exposed to elements of the weather. $\sqrt{\sqrt{}}$

Do not have skills and education to enter formal economy. $\sqrt{\sqrt{}}$ Banks are reluctant to grant loans hence making it difficult to expand their trade into formal businesses. $\sqrt{\sqrt{}}$

Traders borrow money from money lenders that charge high interest rates therefore they are always in debt. $\sqrt{\sqrt{}}$ Local markets are small and the high cost of the transport of goods

Local markets are small and the high cost of the transport of goods to larger distant markets makes it difficult to enter such markets. $\sqrt{\sqrt{}}$

(Any 3 x 2 = 6) (12)

3.7 3.7.1 Global trade / globalisation / international trade $\sqrt{\sqrt{(1 \times 2)}}$ (2)

3.7.2 Northern hemisphere

More export of goods and services to and less imports from the Southern hemisphere. $\sqrt{\surd}$

Southern hemisphere

More imports of goods and services from and less exports to Northern hemisphere. $\sqrt{\sqrt{}}$ (Any 1 x 2) (2)

- 3.7.3 The Southern hemisphere exports mainly primary goods like minerals and agricultural products at low prices. $\sqrt{\sqrt{}}$
 - Southern hemisphere imports mainly manufactured goods and exchange services at high prices from the North. $\sqrt{\sqrt{}}$
 - Countries in the south are agricultural, poor and developing and countries in the north are industrialised, rich and developed. $\sqrt{\sqrt{}}$
 - Not enough skilled workers to produce these products. √√
 - Low productivity of workers. $\sqrt{\sqrt{}}$
 - Factories do not have the facilities to produce products of a high technological quality e.g. machinery. $\sqrt{\sqrt{}}$
 - Southern countries are small and have a small local market $\sqrt{\sqrt{}}$ therefore not economically viable to manufacture certain products locally. $\sqrt{\sqrt{}}$ (Any 1 x 2) (2)

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	3.7.4	 Results in an unfavourable trade balance. √√ Foreign capital flows out of the country. √√ Economic growth is slowed down. √√ Workers are retrenched √√ Standard of living decrease √√ Sell products at low prices due to competition with wo markets. √√ 	orld	
		• Surplus products sold locally at low prices. $$	(Any 2 x 2)	(4)
	3.7.5	 Results in a favourable trade balance. √√ Foreign capital flows into the country. √√ Economic growth is stimulated. √√ Jobs are created. √√ Standard of living increase. √√ 	(Any 2 x 2)	(4) [100]
QUE	STION	4		
4.1	4.1.2 4.1.3	True $\sqrt{}$ False $\sqrt{}$ False $\sqrt{}$ True $\sqrt{}$ False $\sqrt{}$	(5 x 2)	(10)
	4.2.1 4.2.2 4.2.3	Vaal Dam $\sqrt{}$ Lesotho $\sqrt{}$		
	4.2.4 4.2.5	Western Cape Province $\sqrt{}$ Sterfontein Dam $\sqrt{}$	(5 x 2)	(10)
4.3	4.3.1	Depopulation – occurs when there is a marked decline in the population of an area. $\sqrt{}$ Rural-urban migration – the movement of people from rural order to settle in urban areas. $\sqrt{}$		(4)
	4.3.2	 (a) 50 √ (b) 32 √ (c) 40 √ 	(3 x 1)	(3)
	4.3.3	12 (40 − 28) √√	(1 x 2)	
				(2)
	4.3.4	Urban √√	(1 x 2)	(2)

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4.3.5 IMPACT ON RURAL AREAS

Schools / shops close down due to declining numbers. $\sqrt{\sqrt{}}$ Elderly and young are left behind to work on farms. $\sqrt{\sqrt{}}$ Ageing of population. $\sqrt{\sqrt{}}$

Agricultural activities decline – food security becomes a threat. $\sqrt{\sqrt{}}$ Services decline because it is unable to be sustained because of low threshold population. $\sqrt{\sqrt{}}$

Buildings and farms are abandoned giving rise to ghost settlements. $\sqrt{\sqrt{}}$

Family units are broken when parents leave children with grandparents. $\sqrt{\downarrow}$

Brain drain as skilled labour leaves and slows the economic growth of the area. $\sqrt{1}$ (Any 3 x 2 = 6)

MEASURES

Better / upgrade health facilities and facilities close to where people live in rural areas. $\sqrt{\downarrow}$

Education and training facilities e.g. schools and colleges in the area would mean that rural people need not to move to improve their level of education and skills levels. $\sqrt{}$

Better employment opportunities and better wages. $\sqrt{\sqrt{}}$

Rural development schemes will help create employment in rural areas. $\sqrt{\sqrt{}}$

Provide access to clean water and sanitation facilities to disadvantaged and poor rural communities. $\sqrt{}$

Provide better living conditions to encourage people to remain in rural areas. $\sqrt{\sqrt{}}$

(Accept others.) (Any $3 \times 2 = 6$) (12)

4.4 4.4.1 A $\sqrt{}$ (2 x 1) (2)

4.4.2 It is the area for which the central place town provides functions and services. $\sqrt{\sqrt{}}$ (2)

4.4.3 They have more goods and services to offer. $\sqrt{\sqrt{}}$ They are accessible to their surrounding areas. $\sqrt{\sqrt{}}$ (2 x 2)

4.4.4 High order functions $\sqrt{\sqrt{}}$ (1 x 2)

4.4.5 • Large shopping complexes $\sqrt{}$

- Specialised shops administrative offices $\sqrt{}$
- Political functions √
- Social functions √
- Financial services √
- Health services transport services √
- Electrical goods and services $\sqrt{}$ (Any 2 x 1)

17		OLOGICAL III I	(OLI ILIVIDE	-17 20 12)
	4.4.6	 B. Transport / cross roads √ D. Coastal tourist area √ E. Harbour / gateway settlement √ 	(3 x 1)	(3)
	4.4.7	It is low-order functions. $\sqrt{}$ Have a small sphere of influence. $\sqrt{}$	(Any 1 x 2)	(2)
4.5	4.5.1	 Agricultural practices √√ Informal business activities √√ 	(Any 1 x 2)	(2)
	4.5.2	 Capital to buy seeds, fertilisers and equipment. √ Infrastructure e.g. roads, electricity, etc. √ Health care √ Education and training √ 	(Any 2 x 1)	(2)
	4.5.3	When a country or individuals do not have enough food to themselves. $\sqrt{}$,	(2)
	4.5.4	Due to inaccessibility of land the rural poor cannot farm. This can lead to food insecurity. $\sqrt{\downarrow}$	√√ (2 x 2)	(4)
	4.5.5	Yes. $\sqrt{}$ Both rural and urban poor have food insecurities because economic, social and physical factors. $\sqrt{}$	e of (2 x 2)	(4)
	4.5.6	FACTORS		

Floods wash away fertile top soil. $\sqrt{\sqrt{}}$

Drought leads to the spread of desert conditions and destroy grazing land. √√

Shortage of anable land because of dense population. $\sqrt{\sqrt{}}$ Farming practices like monoculture destroy arable land. $\sqrt{\sqrt{}}$ Replacement of subsistence farming with cash crops. $\sqrt{\sqrt{}}$

Foreign competition therefore products are sold at low prices to world markets. $\sqrt{\sqrt{}}$

Wars and conflict force people to flee and remaining rural population is unable to sustain the production of food. $\sqrt{\sqrt{}}$

Poor infrastructure – major markets in towns and cities are inaccessible to rural areas. $\sqrt{\sqrt{}}$

Lack of funds for agricultural research because of poverty. $\sqrt{\sqrt{}}$ Lack of capital (money) to invest in supplies and machinery. $\sqrt{\sqrt{}}$ Outbreaks of diseases. $\sqrt{\sqrt{}}$

Land degradation and soil infertility. $\sqrt{\sqrt{}}$ (Anv 3 x 2 = 6)

MEASURES

Plan and monitor to make sure production meets demand. $\sqrt{\sqrt{}}$ Import certain food if necessary. $\sqrt{\sqrt{}}$

Help people to set up farms in a sustainable manner $\sqrt{}$ Provide skills and training to improve farming methods $\sqrt{\sqrt{}}$

Offer incentives to produce higher yields. $\sqrt{\sqrt{}}$

Researches the use of genetically modified crops to increase food supplies. $\sqrt{\sqrt{}}$

Conservation farming $\sqrt{\sqrt{}}$ (Any 3 x 2 = 6)(12)

4.6	4.6.1	Demand for water is increasing. $\sqrt{}$ From 1993 the demand was estimated to increase by 5 2010. $\sqrt{}$	57% in (2 x 2)	(4)
	4.6.2	Irrigation / agriculture $\sqrt{}$	(1 x 1)	(1)
	4.6.3	Industry by 143% $\sqrt{}$ Municipal use by 122% $\sqrt{}$	(Any 1 x 2)	(2)
	4.6.4	Stock watering – 13% $\sqrt{}$ Nature conservation – 17% $\sqrt{}$ Urban use – 19% $\sqrt{}$ Power generation – 19% $\sqrt{}$	(Any 2 x 1)	(2)
	4.6.5	Primary sector / mining, farming, forestry $\sqrt{}$	(1 x 1)	(1)
 4.6.6 Promote a culture of not wasting by using water saving techniques. √√ Use drip irrigation instead of spray irrigation to increase the production per hectare. √√ Mix the fertilisers with the water fed to plants to prevent the pollution of groundwater supplies. √√ Maintain irrigation equipment to prevent wasting of water. √√ Switch to crops with higher yields per unit of water consumed. Switch to crop varieties which use less water. √√ Use treated water from urban areas for irrigation on farms. √√ 			ease the vent the water. √√ consumed. √√	

TOTAL: 300

(Any 2 x 2)

(4) **[100]**