

SENIOR PHASE

GRADE 9

NOVEMBER 2016

SOCIAL SCIENCES GEOGRAPHY MEMORANDUM

MARKS: 100

This memorandum consists of 5 pages.

QUESTION 1: MAPWORK

1.1 MULTIPLE-CHOICE QUESTIONS

1.1.1	Α	34°S: a latitudinal reference.	(1 x 2)	(2)
1.1.2	D	river valley.	(1 x 2)	(2)
1.1.3	Α	126 m.	(1 x 2)	(2)
1.1.4	С	Golf course	(1 x 2)	(2)
1.1.5	D	meandering channel pattern.	(1 x 2)	(2)
1.1.6	Α	there is deposited sediment in the river channel.	(1 x 2)	(2)

1.2 MAPWORK TECHNIQUES AND CALCULATIONS

1.2.1 North-easterly direction
$$\sqrt{\sqrt{}}$$
 (1 x 2) (2)

1.2.2
$$56^{\circ} \sqrt{\sqrt{}}$$
 (1 x 2) (2)

OR

1.2.3 Method 1: $4.7 \text{ cm} \sqrt{x} 50 000 \sqrt{x}$ 100 000 √ = 2,35 km √

Method 2: 4.7 cm ÷ 2 $\sqrt{\sqrt{}}$ = 2,35 km √√ (4)

1.3 MAP INTERPRETATION AND ANALYSIS

- 1.3.1 One advantage: Clean energy, $\sqrt{\sqrt{}}$ less greenhouse gases Α emitted, $\sqrt{\sqrt{}}$ reduces reliance on coal-powered energy stations, $\sqrt{\sqrt{}}$ allows for localised generation of energy $\sqrt{\sqrt{}}$ (Any 1 logical choice). (Any 1 x 2) (2)
 - One disadvantage: Noise of spinning turbines, $\sqrt{\sqrt{}}$ takes up В space, $\sqrt{\sqrt{\ }}$ can cause the death of flying birds and bats, $\sqrt{\sqrt{\ }}$ looks unsightly, spoils the view $\sqrt{\sqrt{}}$ (Any 1 logical choice) (1×2) (2)
- (a) Low-income residential $\sqrt{}$ 1.3.2 (1)
 - Small properties. $\sqrt{\sqrt{1}}$ houses are small. $\sqrt{\sqrt{1}}$ houses are built close (b) together. $\sqrt{\sqrt{}}$ (Any 1 logical choice) (Any 1 x 2) (2)
- Good infrastructure (roads, railway lines), $\sqrt{\sqrt{}}$ windpumps and furrows 1.3.3 for the provision of water, $\sqrt{\sqrt{}}$ windbreaks to protect field from prevailing winds, cultivated lands divided into camps, farms have names. $\sqrt{\sqrt{}}$ (Any 2 logical choices) (Any 2 x 2) (4)
- Preservation of fauna and flora (biodiversity), $\sqrt{\sqrt{}}$ filtering waste, $\sqrt{\sqrt{}}$ 1.3.4 absorbs flood water, $\sqrt{\sqrt{}}$ recreational purposes. $\sqrt{\sqrt{}}$ (Any 2 logical choices) (Any 2 x 2) (4) [35]

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QUESTION 2: SURFACE FORCES THAT SHAPE THE EARTH AND DEVELOPMENT ISSUES

		וט	EVELOPINIENT 1330E3				
2.1	PROCESSES						
		Hydraulic action $\sqrt{}$ Deflation $\sqrt{}$					
2.2	FEATURES OF EROSION						
	2.2.1	A B C D	Arch √ Ox-bow lake √ Barchan dune √ Cirque √ Wave-cut platform √		(1) (1) (1) (1) (1)		
	2.2.2	A B C D	Wave action along the coast. $$ River action or surface runoff $$ Wind action $$ Moving ice or glacier movement $$ Wave action along the coast $$		(1) (1) (1) (1) (1)		
2.3	2.3 SOIL EROSION						
	2.3.1	Removal of soil $$ by forces of erosion such as running water and wind. $$					
	2.3.2	decli	cultural production declined, $$ the number of daily meaned $$ and the quantity of food per meal has declined. 1 explanation from the text)	1	(1)		
	2.3.3	Overgrazing, $\sqrt{}$ over-cultivation, $\sqrt{}$ deforestation, ploughing across contour lines, $\sqrt{}$ over-use of pesticides and herbicides. $\sqrt{}$ (Any 2 logical choices) (Any 2 x					
	2.3.4	Α	Reduce soil erosion To limit tilling of the soil, $\sqrt{\sqrt}$ crop rotation, $\sqrt{\sqrt}$ stock rot reforestation, $\sqrt{\sqrt}$ cultivation parallel to contour lines to off, $\sqrt{\sqrt}$ constructing anti-erosion walls $\sqrt{\sqrt}$, use of windle	limit run-	(4)		

B Improve agricultural production

To genetically manipulate seed varieties, $\sqrt{\sqrt}$ greenhouses and plastic tunnels, $\sqrt{\sqrt}$ permaculture or hydroponics, $\sqrt{\sqrt}$ use of naturally occurring methods to curb pests, $\sqrt{\sqrt}$ education of farmers, $\sqrt{\sqrt}$ to use a variety of compatible plant species, $\sqrt{\sqrt}$ raintanks, drip-irrigation, $\sqrt{\sqrt}$ use of appropriate technology that the people can understand and afford.

(Any 2 logical choices to improve small-scale cultivation)

(Any 2 x 2) (4)

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2.4 UNFAIR TRADE AND AID PROVISION PRACTICES

- 2.4.1 Less Economically Developed Countries (LEDC) or developing countries. √ (Do not accept poor countries)
- 2.4.2 More Economically Developed Countries (MEDC) or developed countries.√ (Do not accept rich countries)
- 2.4.3 The tree trunk has been processed into planks which are now easier to use and therefore are more valuable. $\sqrt{1}$ (1 x 2) (2)
- 2.4.4 The poor man provided the resource √. Once the resource was processed the poor man had to buy it back from the rich man at a higher cost. √ As the poor man could not afford the chicken sheds the rich man said he would help the poor man by giving him a loan. The poor man is then charged interest and is in debt. √ The rich man then has the monopoly of the resource which he can buy at fixed prices. √ The poor man has no choice and has to trade with the rich man because of his debt. √
 (Any logical choice from the text)
- 2.4.5 Fair trade: To develop more equitable relationships between developed and developing countries:

To create opportunities for economically disadvantaged producers, $\sqrt{}$ fair trade is open to all. $\sqrt{}$

To improve managerial skills and open up market opportunities for the producers, $\sqrt{}$ pay a fair price for a resource, $\sqrt{}$ sustainable environmental practices and responsible methods of production. $\sqrt{}$ (Any 2 logical choices) (Any 2 x 2)

(4) **[40]**

QUESTION 3: SUSTAINABLE USE OF RESOURCES

3.1 SUSTAINABLE VERSUS UNSUSTAINABLE LINE FISHING PRACTICES IN SOUTH AFRICA

- 3.1.1 **Unsustainable fishing** (concept): irresponsible fishing, $\sqrt{\ }$ to not limit the amount and size of fish species caught, $\sqrt{\ }$ to not preserve future fish supplies. $\sqrt{\ }$ (Any 2 x 1) (2)
- 3.1.2 By informing consumers √ by using different colours √ of which fish species is in plentiful supply and can be eaten (green colour). Those species that are threatened (orange) and those that are endangered (red colour) should not be eaten. √ This helps the consumer to make responsible choices√ when purchasing fish. (Any 3 explanations)
 (Any 3 x 1)

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	3.1.3	Α	Over-fishing or commercial line fishing $\sqrt{\!}$	(Any 1 x 2)	(2)			
		В	Large-scale commercial fishing $\sqrt{}$ Use of illegmethods, for example, the use of gill nets $\sqrt{}$ (Any logical choice)	gal fishing (Any 1 x 2)	(2)			
	3.1.4	Limits set on the number of boats and their catch capacity, $\sqrt{}$ limits set to catch only certain species in an area, $\sqrt{}$ areas where fishing can take place are monitored those breaking the law are fined, $\sqrt{}$ Marine Protected Areas (MPA's) to allow fish to breed, $\sqrt{}$ only certain size limits are allowed, $\sqrt{}$ mesh size of nets must allow immature fish to escape. $\sqrt{}$ (Any 2 logical choices)						
3.2	GREENHOUSE GAS EMISSIONS (GIVEN OFF) FROM ELECTRICITY PRODUCTION							
	3.2.1		enhouse gases: gases in the atmosphere that a $t \sqrt{1}$ in the Earth's atmosphere. $\sqrt{1}$ AND/OR	absorb and retain (2 x 1) (2)				
		<u>Glob</u> rise	bal warming: An increase in greenhouse gases in atmospheric temperatures. √ This is called g	√ is causing a lobal warming. (2 x 1) (2)				
		AND/OR Climate change: Global warming is causing a change in normal weather patterns $$ over time bringing about climatic change. $$ (2 x 1) (2)						
			AND/OR bon footprint: amount of carbon emissions $\sqrt{\text{ea}}$ ording to their life-styles, is responsible for. $\sqrt{\text{ea}}$, , , ,	(4)			
	3.2.2	A B C	Coal-fired power stations $$ Nuclear power $$ Nuclear power $$	(1 x 2)	(1) (1) (2)			
	3.2.3	<u>Carbon taxes</u> : fining businesses as punishment for releasing carbon emissions $\sqrt{1}$, use of low-carbon technologies that release less carbon, $\sqrt{1}$ LED and fluorescent light bulbs, educate people about the intelligent use of electricity, $\sqrt{1}$ implement a solar-water geyser programme, turn electrical appliances off at the wall when not in use.						
			/ 2 logical choices)	(Any 2 x 2)	(4) [25			