

NATIONAL SENIOR CERTIFICATE

GRADE 10

NOVEMBER 2020

GEOGRAPHY P1 MARKING GUIDELINE (EXEMPLAR)

MARKS: 150

This marking guideline consists of 8 pages.

(8 x 1)

(8)

QUESTION 1

1.1 1.1.1	A (drought)
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- 1.1.2 A (convection)
- 1.1.3 D (greenhouse gases)
- 1.1.4 D (troposphere)
- 1.1.5 D (chlorofluorocarbons)
- 1.1.6 C (precipitation)
- 1.1.7 A (frost)
- 1.1.8 C (synoptic weather map)
- 1.2 1.2.1 D (Cumulonimbus cloud)
 - 1.2.2 H (Oxygen)
 - 1.2.3 F (Ozone)
 - 1.2.4 A (Insolation)
 - 1.2.5 B (Terrestrial radiation)
 - 1.2.6 C (Tropopause)
 - 1.2.7 E (Scattering) (7 x 1) (7)
- 1.3 1.3.1 Global warming is the increase in the average temperature of the earth's atmosphere.
 (Concept) (1 x 1) (1)
 - 1.3.2 Changing rain and snow patterns Changes in animal migration and life cycles Less snow and ice Higher temperatures and more heat waves Stronger storms More droughts and wildfires Thawing permafrost Damaged corals Rising sea levels Warmer ocean
 (Any 2 x 1) (2)
 - 1.3.3Methane
Carbon dioxide
Nitrous oxide
Ozone
Chlorofluorocarbon(Any 2 x 1)

	1.3.4	Power stations and factories burn fossil fuels Deforestation Livestock especially cattle Aerosols release CFCs and harlocarbons into the atr Waste dumps release methane into the atmosphere Increasing rice production causes the release more r	-	(4)
	1.3.5	Reduce the overall emissions of greenhouse gases Use solar energy Reduce the emission of methane Promote sustainable forms of agriculture Heavy fines Reduce population numbers Plant more trees to absorb Use public transport Public education	(4 py 2 y 2)	(6)
			(Any 3 x 2)	(6)
1.4	1.4.1	Summer	(1 x 1)	(1)
	1.4.2	Gauteng	(1 x 1)	(1)
	1.4.3	(a) Cumulonimbus	(1 x 1)	(1)
		 (b) Lightning Hailstones Heavy rainfall Thunderstorms Cloudy 	(Any 2 x 1)	(2)
	1.4.4	Thunderstorm is accompanied by rainfall There will be enough water for crops and animals There will be enough water for domestic use	(Any 2 x 1)	(2)
	1.4.5	Heavy rainfalls can cause flash floods which may destruction of infrastructure and houses The impact thunderstorms have on people can be e.g. electrocution, shock and even deaths Thunder can destroy the environment It can hurt/scare animals It can burn vegetation		(8)
1.5	1.5.1	Isobar	(1 x 1)	(1)
	1.5.2	(a) A - High Pressure	(1 x 1)	(1)
		(b) B - Low Pressure	(1 x 1)	(1)
	1.5.3	1 020 hPa	(1 x 2)	(2)
	1.5.4	(a) Summer	(1 x 1)	(1)
		(b) Low pressure in the interior High pressure further away from land	(1 x 2)	(2)

	1.5.5	Air temperature Wind direction	16° C South West		
		Wind speed Precipitation	10 knots None		
		Cloud cover	Overcast	(5 x 1)	(5)
	1.5.6				
				(1 x 2)	(2) [60]
QUE	ESTION	2			
2.1	2.1.1	C (geomorphology)			
	2.1.2	A (Laccolith)			
	2.1.3	D (continental drift)			
	2.1.4	B (Pangaea)			
	2.1.5	A (Crust)			
	2.1.6	B (Batholith)			
	2.1.7	A (Mesa, butte and	conical hill)		
	2.1.8	A (rock cycle)		(8 x 1)	(8)
2.2	2.2.1	Earthquake		(1 x 1)	(1)
	2.2.2	A – Focus B – Epicentre			
		C – Seismic waves D – Fault line		(4 x 1)	(4)
	2.2.3	more destruction		(1 x 1)	(1)
	2.2.4	Seismograph		(1 x 1)	(1)
2.3	2.3.1	compressional force	ing of rocks into folds due to strong es from the sides while <i>faulting</i> is a c		
		compression forces	s as a result of continuous tension a	na (2 x 1)	(2)
	2.3.2	(a) An upfold – ant	ticline	(1 x 1)	(1)
		(b) A downfold – s	yncline	(1 x 1)	(1)
	2.3.3	(a) X – normal fau	lt	(1 x 1)	(1)
		(b) Y – reverse fau	ılt	(1 x 1)	(1)
	234	Tensional force		(1 x 1)	(1)

2.3.4 Tensional force (1 x 1) (1)

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(EC/NOVEMBER 2		GEOGRAPHY P1		5
	2.3.5	Importance of Lake Victoria Provides water for domestic and agricultural purpose Employment and job creation through fishing Food supply, given by the per capita fish quantities as well as the contribution of fish to animal protein at the national level Tourist attraction	s	
		Importance of Mount Kilimanjaro Generates revenue for the park and the local people It alleviates poverty Creation of employment opportunities It enhances infrastructure to keep up with rising pa tourist expectations (Any four. Must refer to both Lake Victoria and Mo Kilimanjaro)	·	
			(4 x 2)	(8)
2.4	2.4.1	Rocks which form when magma cools	(1 x 1)	(1)
	2.4.2	Basalt Dolrite Granite	(3 x 1)	(3)
	2.4.3	Magma – Molten rock	(1 x 1)	(1)
	2.4.4	It forms when the release of pressure causes magm the line of weakness The magma then solidifies either under or over the ea This becomes intrusive or extrusive igneous rocks	·	(4)
	2.4.5	Uses of Igneous rocks Contains valuable metals such as copper, gold, iron, manganese Mining activities can take place to generate income Serves as building materials Can be used to make tombstones		(6)
a -			(Any 3 x 2)	
2.5	2.5.1	(a) 4%	(1 x 1)	(1)
		(b) 20%	(1 x 1)	(1)
	2.5.2	Physical defenses Well-practised evacuation procedures	(Any 1 x 1)	(1)

2.5.3	Damage to infrastructure Loss of lives Injury to people Buildings destroyed Destroys farmlands		
	Destroys the natural environment		
	Objects swallowed by earth	(Any 3 x 2)	(6)
2.5.4	Provide them with food Doctors and social workers must be se were injured	ent there to treat those who	
	Firefighters must be sent to Nepal		
	Give them money to start their lives Provide them with clean water	(Any 3 x 2)	(6) [60]
		TOTAL SECTION A:	120

SECTION B

QUESTION 3

3.1 MAPWORK CALCULATIONS AND TECHNIQUES

	3.1.1	(a) 5 metres	(1 x 1)	(1)
		(b) 5 times smaller	(1 x 1)	(1)
		(c) Dam	(1 x 1)	(1)
	3.1.2	Area = length (L) x breadth (B)		
		= 1,2 cm x 0,8 cm		
		= (1,2 cm / 10) x (0,8 / 10)		
		= 0,12 km x 0,08 km		
		= 0,0096 km ²	(4 x 1)	(4)
	3.1.3	(a) Difference in height = 209 m – 207,3 m = 1,7 m	(2 x 1)	(2)
		(b) Gentle	(1 x 1)	(1)
3.2	MAP	AND PHOTO APPLICATION AND INTERPRETATION		
	3.2.1	(a) Road/ Railway	(1 x 1)	(1)
		(b) Kromriver	(1 x 1)	(1)
		(c) Reservoir	(1 x 1)	(1)
	3.2.2	(a) July	(1 x 1)	(1)
		(b) October	(1 x 2)	(2)
	3.2.3	 The landscape loses shape It leads to land degradation /desertification Top soil/fertile soil with nutrients is lost Land loses importance for cultivation Plant and animal species lost by clearing vegetation It facilitates soil erosion (Any TWO) 	(2 x 2)	(4)
			(- ·· -)	(')

8		GEOGRAPHY P1 (EC/NOVEMBER		<u>2020)</u>		
	3.2.4	 Dam water can overspread causing flood into the settlement They are located on a lower ground Mosquitos in summer cause malaria (disease) Unclean water especially in dry seasons cause cholera (Any ONE) (1 x 2) 				
3.3	3.3.1	Geographical Inf	ormation Syster	n	(1 x 1)	(1)
	3.3.2	2 Oblique photograph (1 x 1)			(1)	
	3.3.3	FEATURE	NODE	LINEAR	POLYGON	
		Cultivated land			X	
		Reservoir	X			
		Main road		X		
					(3 x 1)	(3)
	3.3.4	(a) Data layering			(1 x 1)	(1)
 (b) - Computers are faster More information is coming into the world GIS can be used in daily lives (Any ONE) (1 x 2) 					(2) [30]	
				-	L SECTION B: RAND TOTAL :	30 150

GRAND TOTAL: 150