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Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

GEOGRAPHY P1

2023

MARKING GUIDELINES

These marking guidelines consist of 11 pages.



SECTION A: CLIMATE AND WEATHER AND GEOMORPHOLOGY

QUESTION 1: CLI	MATE AND	WEATHER
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1.1 1.1.1 D (1)

1.1.2 B (1)

1.1.3 A (1)

1.1,4 C(1)

1.1.5 B(1)

1.1.6 A (1)

1.1.7 B (1)

1.1.8 B (1)

 (8×1) (8)

1.2 1.2.1 Z(1)

1.2.2 Y (1)

1.2.3 Y (1)

1.2.4 Z(1)

1.2.5 Z(1)

1.2.6 Y (1)

1.2.7 Z(1) (7 x 1) (7)



			DBE/2023	
1.3	1.3.1	Winter (1)	(1 x 1)	(1)
	1.3.2 EVIDENCE FROM EXTRACT	(10/12/13) June /Date (1) Cold fronts in the interior of Western/Eastern Cape (1) High amounts of rainfall (1) Significant drop in temperature (1) [ANY ONE]	(1 x 1)	(1)
	1.3.3 WHY A GREATER IMPACT	Northward movement of the high pressure belts (anti-	cyclones)/ITCZ (2) (1 x 2)	(2)
	1.3.4	Backing (1)	(1 x 1)	(1)
	1.3.5 REASON	(The wind direction associated with the cold front north-west to south-west as the front moves over the		(2)
	1.3.6 SUGGEST POSITIVE AND NEGATIVE IMPACTS OF HEAVY RAINFALL ON PHYSICAL [NATURAL] ENVIRONM ENT	Positive: Brings much needed moisture to the soil (2) Revival of biodiversity/ecosystem/habitat (2) Water available for wildlife (2) Water available for growth of natural vegetation (2) Water allows for more grazing land/veld (2) Fill up (by infiltration) natural aquifers/springs/groundware Fill up (via surface runoff) rivers (2)	ater (2)	
		Negative: (Low-lying) areas are flooded (2) Soil erosion will increase (2) Destruction of biodiversity/ecosystem/habitat (2) Damage to natural vegetation (2) Loss of wildlife (2) Increase salination of rivers (2) Saturation of soil (waterlogged conditions) (2) Rock falls/mass movements on steeper slopes (2) [ANY FOUR, RESPONSES MUST REFER TO BOTH NEGATIVES]	PRIVATE DAG X888, PRETO 2023 -05- 2 4 APPROVED MARKING GU PUBLIC TEASING POSITIVES AND (4 x 2)	DRIA 0001
1.4	1.4.1 EMDENCE FOR SH	Clockwise movement of air (1) Position of the leading left quadrant (1) Wind direction shown by the symbol of the eye (1) [ANY ONE]	(1 × 1)	(1)
	1.4.2 TWO REASON FOR MATURE STAGE	Pressure in the centre is significantly below 1000 hPa (Well-developed eye (1) The area covered by the tropical cyclone is large (450k The leading left quadrant (dangerous semicircle) is visit Isobars are closely spaced/pressure gradient is very standard TWO]	m- 950km) (1) ble (1)	(2)



	n	-	m	^	-	-
D	94	-	11	Εï	1	1

1.4.3	There will be no cloud cover/clear s	ikies (2)	(1 x 2)	(2)
1.4.4 REASON FOR ANSWER	Descending air heats up resulting in Adiabatic heating reduces moisture [ANY ONE]		(1 x 2)	(2)
1.4.5	(a) Air pressure decrease and wind	speed increases (2)		
SHIP-WIND SPEED AND AIR PRESSURE	(b) Both air pressure and wind spee	ed decreases (2)	(2 × 2)	(4)
1.4.6 WHY ISOBARIC REPRESENT ATION REFERRED TO LEFT HAND QUADRANT	It experiences the most intense we severe weather conditions) (2)	eather conditions (accept exam	mples of (1 x 2)	(2)
1.4.7 HOW LEFT HAND QUADRANT DEVELOPS	When the forward movement comb	ines with the rotation of the sy	stem (2) (1 x 2)	(2)
1.5.1	A South Atlantic (1) B South Indian (1)		(2 x 1)	(2)
	1000			
1.5.2	Summer (1)		(1 x 1)	(1)
1.5.3 GIVE REASON FOR SUMMER	Line thunderstorms (heavy rainfall) Cumulonimbus clouds/lightning/hail Moisture front developed (2) Air from the east/west reaches the i [ANY ONE]	(2)	(1 x 2)	(2)
1.5.4 WHAT IS A MOISTURE FRONT	The boundary (dry line) between two content (2) [CONCEPT]	vo air masses of different n	noisture (1 x 2)	(2)
	INSTRUCTION FOR PART MARKI The boundary (dry line) between tw			
1.5.5	(Heavy) Rainfall (1) Hail (1) Thunderstorms (1) [ANY TWO]		(2 x 1)	(2)
1.5.6 DESCRIBE THE FORMATION OF UNE THUNDER STORM	Convergence of warm moist air and Moisture front develops (2) Cold dry air undercuts warm moist a Warm moist air rises (2) Condensation occurs in the eastern Cumulonimbus clouds develops (2) [ANY THREE]	ir (2)	(3 × 2)	(6) [60]
	MOON.	PRIVATE BAG X805, PRETORIA 0001		[00]

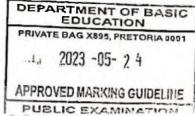


QUI	ESTION	2 - GEOMORPHOLOGY		
	2.1.1	C (1)		
	2.1.2	A (1)		
	2.1.3	D (1)		
	2.1.4	B (1)		
	2.15	C (1)		
	2.1.6	B (1)		
	2.1.7	B (1)		
	2.1.8	C (1)	(8 x 1)	(8)
2.2	2.2.1	Z (1)		
	2.2.2	Y (1)	DEPARTMENT OF BASIC	
	2.2.3	Y (1)	2023 -05- 2 4	
	2.2.4	Y (1)	APPROVED MARKING CHITELINE	
	2.2.5	Z (1)	PUBLIC EXAMINATION	
	2.2.6	Z (1)		
	2.2.7	Y (1)	(7 x 1)	(7)
2.3	2.3.1	Upper (1)	(1 x 1)	(1)
	2.3.2 IDENTIFY CHARACT ERISTICS OF VALLEY IN UPPER COURSE	Deep valleys (2) Narrow/V-shaped valley (2) Steep slopes (2) Gorge (2) Interlocking spurs (2) Vertical erosion is dominant (2)	(2 2)	
	111	[ANY TWO]	(2 x 2)	(4)
	2.3.3 WHAT IS A WATER FALL	A body of water's/river falling ove [CONCEPT]	r hard rock/steep slope/vertical cliff (2)	
	· net	INSTRUCTION FOR PART MAR A body of water's/river falling ove		(2)
	2.3.4	Y- resistant/hard rock (1) Z- less resistant/ soft rock (1)	(2 x 1)) (2)



2.3.5 The softer rock (Z) is eroded leaving the hard rock (Y) exposed (2) HOW DOES EROSION Erosion/undercutting of less resistant/soft rock occurs (2) Erosion/undercutting will create a plunge pool (2) CAUSE RETREAT OF The resistant/hard rock (Y) is not supported by the soft rock (Z) and WATER overhang (2) The overhanging resistant/hard rock collapses (2) [ANY THREE] (6) (3×2) 2.4.1 2.4 A process where a river regains energy (and begins to erode WHAT IS vertically/downwards again) (2) ATION [CONCEPT] (1×2) (2)2.4.2 Change in gradient (1) OR (Accept Isostatic uplift (1) and/or Drop in sea level (1)) STATE CAUSES Increase in the volume of water (1) OR (Accept Increase in rainfall (1) and/or River capture (1)) REJUVEN Joining of a faster tributary (1) [ANY TWO] (2×1) (2)2.4.3 Terrace (1) CROSS-SECTION REJUVEN ATED New Flood plain (1) Correct shape (1) Mark distribution Mark for correct shape of cross section (1) Mark for indicating new flood plain on cross-section (1) Mark for indicating ANY ONE Terrace on cross-section (1) (3) (3×1) 2.4.4 A rejuvenated river cuts into the valley floor (2) FORMATION OF RIVER TERRACES Downcutting creates a new flood plain (2) A step forms between the old and new flood plains (2) [ANY TWO] (2×2) (4)2.4.5 Steepness of slopes will hamper construction of roads/railway lines (2) EXPLAIN Softness of the underlying rocks causes instability to roads/ railway HOW LANDSCAPE NEGATIVEL Y IMPACTED INFRASTRU construction (2) Terraces make it costly to build bridges (2) CTURE DEVELOPME NT Wide flood plain makes it difficult to build bridges (2) [ANY TWO] (2×2) (4) INSTRUCTION FOR PART MARKING- MAXIMUM OF TWO Steepness of slopes (1) Softness of the underlying rocks (1) Terraces (1)

Wide flood plain(1)





2.5	2.5.1	Coal mine waste have spilled into rivers (1)		
	FOR BLACK COLOUR RIVER	Polluted mine waste burst from a slurry dam [ANY ONE]	(1) (1 x 1)	(1)
	2.5.2	Arsenic copper (1)		
		Lead (1)		
		Manganese (1) [ANY TWO]	(2 x 1)	(2)
	2.5.3 QUOTE MINING COMPANY DID NOT DISCLOSE	"the residents of the affected communities potential hazards until two weeks later" (2) "Conservation managers in the neighboring Reserves were also made to believe that the [ANY ONE]	Huhluwe – Imfolozi Game	(2)
	051	F		
	2.5.4 NEGATIVE ECONOMIC IMPACT OF NON DISCLOSUR	Eco-tourism affected (2) Businesses in the community negatively affected (2) Agricultural activities negatively affected (2) Future investments in the communities limited Contamination of agricultural products (2) Increase in medical bills (2) (Water) purification is expensive (2)		
		[ANY ONE]	(1 x 2)	(2)
			,,,,,,,	,/
	2.5.5	IMPORTANCE:		
	THE ENVIRO	To ensure the availability of water (2)		
	MANAGING MFOLOZI	To maintain water quality (2) To preserve aquatic life (2)		
	UGGEST MEASURES	To ensure that the ecosystem remains healthy	(2)	
Ī	OCAL MUNICIPALI Y CAN MPLEMENT	To preserve biodiversity/ecosystem/habitat (2)		
;	UTURE UALITY OF	MEASURES:		
*	ATER	Continuous monitoring of the dam (2)		
		Regular maintenance of the dam (2)		
		Frequent testing of water quality (2) Impose fines to companies which do not comp	ly (with regulation) (2)	
		Create buffer zone around slurry dam (2)	ly (with regulation) (2)	
		Educate community on the precautionary measure	sures (2)	
		Awareness campaigns for people (bill boards,		
		implement policy/legislation (2)		
		Conserve natural vegetation in the drainage ba		
		Regulate or control extraction of groundwater (
		Promote sustainable farming methods upstrear ANY FOUR, RESPONSES MUST INCLUDE		
		AND MEASURES]	(4 x 2)	(8)
			(4 ^ 2)	[60]
		DEPARTMENT OF BASIC EDUCATION PRIVATE BAG X895, PRETORIA 8001	TOTAL SECTION A:	120
		.1., 2023 -05- 2 4		
		APPROVED MARKING GUIDELINE		
		PUBLIC EXAMINATION		



SECTION B

QUESTION 3: GEOGRAPHICAL SKILLS AND TECHNIQUES

GOL	o non	. OLO	ONAL INOAL ONIELO	AND ILCIMINATE		
3.1	3.1.1	B (1)			(1 x 1)	(1)
	3.1.2	D (1)			(1 x 1)	(1)
	3.1.3		VI = 1463 - 1183.3 = 2	279.7 (1) m		
			$\frac{VI = 279.7}{HE = 3000}$ (1) for co	orrect substitution		
			Gradient = 1: 10.72 (1	1)	(3 x 1)	(3)
	3.1.4 EVIDENCE FOR DIFFICULTY TO CONSTRUCT ROAD	There There	gradient is steep (1) e are a number of valley e are a number of spurs e is an excavation close 7 TWO]	s (1)	(2 x 1)	(2)
	3.1.5	(a)	1: 20 x 100 = 2000 (1)		
	0.1.0	(ω)	1: 2000 (1)	,	(2 x 1)	(2)
		(b)	The cross-section (c			
			exaggerated by 3 time	es/The cross-section is 5 times larg	(1 x 1)	(1)
3.2	3.2.1	C (1)			(1 x 1)	(1)
	3.2.2 IDENTIFY HUMAN MADE FEATURE	Built-up areas (1) Road (1) [ANY ONE]			(1 x 1)	(1)
	3.2.3 EXPLAIN YOUR ANSWER	More The b Multip Storn	heat is generated (accounties of the control of the			
		[ANY	ONE]	DEPARTMENT OF BASIC EDUCATION	(1 x 2)	(2)
	NATURAL RIVER	Woodlands/trees (1) Rivers/ water (1)		PRIVATE BAG X895, PRETORIA 0001		
		010-2	APPROVED MARKING GUIDELINE	(1 x 1)	(1)	
	3.2.5	C (1)		PUBLIC EXAMINATION	(1 x 1)	(1)
	3.2.6 HOW RELIEF FAVOURS LOCATION	Surro	le slope (flat land) (2) ounding high-lying area ounding high-lying area ONE]	creates safety (2) will buffer the noise (2)	(1 x 2)	(2)



	areas	
with no human activities (2) [ANY TWO]	(2 x 2)	(4)
B (1)	(1×1)	(1)
C3 (1)	(1 x 1)	(1)
Name of the monument (1) The date of birth and death of Diederich Coetzee (1) Height of the monument above sea level (1)		
[ANY ONE]	(1 x 1)	(1)
Personnel/ people/ user (1)	(1 x 1)	(1)
Manipulate the data (2) Input of data (2) Use appropriate GIS methods (2) Make information more accessible to users (2) Make information more understandable for users (2) Acquires the soft and hardware to be used (2) Acquire/collect data (2) [ANY ONE]	(1 x 2)	(2)
Different maps were integrated into one map (2)	(1 x 2)	(2)
	The woodland forms a buffer (2) Most tributaries feeding the dam have their origin in high-lying a with no human activities (2) [ANY TWO] B (1) C3 (1) Name of the monument (1) The date of birth and death of Diederich Coetzee (1) Height of the monument above sea level (1) [ANY ONE] Personnel/ people/ user (1) Manipulate the data (2) Input of data (2) Use appropriate GIS methods (2) Make information more accessible to users (2) Make information more understandable for users (2) Acquires the soft and hardware to be used (2) Acquire/collect data (2) [ANY ONE]	The woodland forms a buffer (2) Most tributaries feeding the dam have their origin in high-lying areas with no human activities (2) [ANY TWO] (2 × 2) B (1) (1 × 1) C3 (1) (1 × 1) Name of the monument (1) The date of birth and death of Diederich Coetzee (1) Height of the monument above sea level (1) [ANY ONE] (1 × 1) Personnel/ people/ user (1) (1 × 1) Manipulate the data (2) Input of data (2) Use appropriate GIS methods (2) Make information more accessible to users (2) Acquires the soft and hardware to be used (2) Acquire/collect data (2) [ANY ONE] (1 × 2)

TOTAL SECTION B: 30 GRAND TOTAL: 150

