

NATIONAL SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2012

GEOGRAPHY P2

MARKS: 100

TIME: 1½ hours

NAME:



		MARKS	MOD
Q1	20		
Q2	20		
Q3	40		
Q4	20		

TOTAL MARKS	MOD
100	100

This question paper consists of 12 pages.

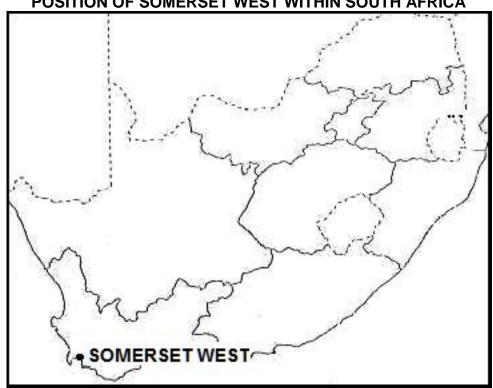
INSTRUCTIONS AND INFORMATION

- 1. Write your NAME in the space provided on the cover page.
- Answer ALL the questions in the spaces provided ON THIS QUESTION PAPER.
- 3. You are supplied with a 1:50 000 topographical map (3418 BB SOMERSET WEST) and an orthophoto map (3418 BB 7 SOMERSET WEST) of a part of the mapped area.
- 4. The topographical map and the orthophoto map must be handed over to the invigilator at the end of the examination session.
- 5. NOTE: The resource material (topographical map and orthophoto map) must be collected by the schools for their own future use.
- 6. A non-programmable calculator may be used.
- 7. A glossary of some of the English and Afrikaans words and their translations appears on the following page.

GLOSSARY (SOME OF THESE TERMS MAY APPEAR ON THE MAPS.)

ENGLISH	AFRIKAANS
Brickworks	Steenmakery
Landing Strip	Landingstrook
Diggings	Uitgrawings
Nature Reserve	Natuurreservaat
Show Grounds	Skougronde
Woodland / Plantation	Beboste gebied / Plantasie
Cemetery	Begraafplaas
Weir	Studam
Camping site	Kampeerterrein
Caravan Park	Karavaanpark
Golf Course	Gholfbaan
Furrow	Voor
Hospital	Hospitaal
Shooting Range	Skietbaan
Ox Wagon Trek	Ossewa-Trek
Sewage Disposal Works	Rioolverwerkingsaanleg

POSITION OF SOMERSET WEST WITHIN SOUTH AFRICA



SECTION A

QUESTION 1: MULTIPLE-CHOICE QUESTIONS

The following statements are based on the 1:50 000 topographical map 3418 BB SOMERSET WEST and the orthophoto map 3418 BB 7 of the same area. Various options are provided as possible answers to the following statements. Choose the correct answer and write only the letter (A - D) in the block next to the statement.

1.1	The	mapped area to the west of Somerset West 3418 BB is	
	A B C D	3419 AA. 3418 BD. 3418 BA. 3419 BD	
1.2	The	contour interval on the orthophoto map is	
	A B C D	5. 10. 20. 2.	
1.3	The the	ocean current found to the south-west of the town Somerset West is	
	A B C D	Mozambique. Peruvian. Benguela. Cape Town.	
1.4		number 3418 on the topographical map and orthophoto map esents the	
	A B C D	flight number of the sequence. time and date of the map. magnetic declination. latitude and longitude of the area.	
1.5	The	Steenbras River (L6) is flowing in a/an direction.	
	A B C D	easterly north-easterly north-westerly south-westerly	

B built-up area.

C Macassar Beach.

D cultivated lands.

 $(10 \times 2) (20)$

TOTAL SECTION A: 20

SECTION B

QUESTION 2: MAPWORK TECHNIQUES AND CALCULATIONS

2.1	Calculate the average gradient between trigonometrical beacon Δ 148 (block C8) and the benchmark 21.1 (block G7). Show ALL calculations.				
		(5)			
2.2	Calculate the area of block A1 on the topographical map. Show ALL your calculations and express your answer in km².				
		(5)			
2.3	What do contour lines, trigonometrical stations, spot heights and bench marks all have in common?				
		(2)			

(5)

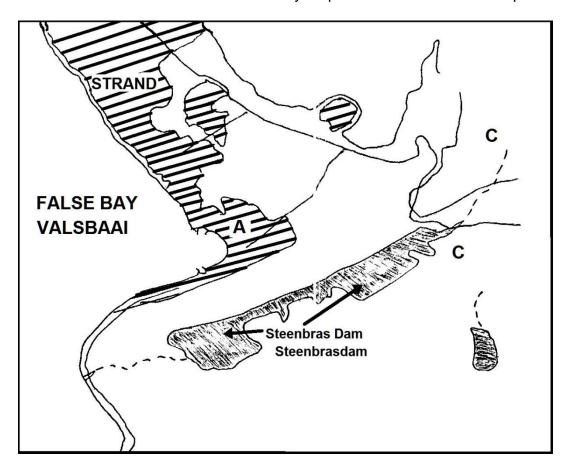
20

TOTAL SECTION B:

SECTION C

QUESTION 3: MAP INTERPRETATION AND ANALYSIS

3.1 The sketch map below represents the area covered by the topographical map. Study the topographical map and then indicate the features referred to in QUESTIONS 3.1.1 – 3.1.5 as accurately as possible on the sketch map.



<u>Reference</u>			<u>Verwysing</u>	
River Roads Railway Built-up areas			Rivier Paaie Spoorweg Beboude gebiede	
3.1.1	What is the	name of the towr	n marked A on the map?	
				_ (1
3.1.2	Use the lette West.	er B to indicate th	ne railway line linking Elgin with Somerset	
	On sketch.			(1

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0.0	location. Give and explain THREE factors that influence its location.	,	
		(0, 0)	
3.7	Identify the cultural (man-made) features labelled P , Q , R and S on to orthophoto map. Choose from the list below. Use the topographica an aid to determine your answers.		(6
	School Factory Shopping Centre Reservoir P =		
	Q =		-
	R =		-
	S =	(4 x 2)	
3.8	Identify ONE physical factor that resulted in the area becoming a poholiday destination.	, ,	(0
		(1 x 2)	(2
3.9	Somerset West is an important tourist destination. Using map evide any THREE recreational opportunities that the town offers to tourists		
			-
		(3 x 2)	(6
3.10	In which province of South Africa is Somerset West situated?		
		(1 x 1)	(1
3.11	Which major city is situated nearest (closest) to Somerset West?		
		(1 x 2)	(2

SECTION D

QUESTION 4: GEOGRAPHICAL INFORMATION SYSTEMS (GIS)

4.1	Differentiate between spatial and attribute data.				
	Spatial:				
	Attribute:	_			
	(2 x 2)	(4			
4.2	Provide a real example of the following from the topographical map blocks A8, L9 and L10.				
	Point:	=			
	<u>Line:</u>	_			
	Polygon (Area):	_			
	(3 x 2)	(6			
4.3	Differentiate between vector and raster data.				
	<u>Vector:</u>	-			
	Raster:	-			
	<u>INASTELL</u>	-			
	(Concept) (2 x 2)	(4			
4.4	What is a Geographic Information System (GIS)?				
		-			
	(1 x 2)	(2			

4.5	Name any TWO components of a GIS.	
		_
	(2 x 2)	(4)

TOTAL SECTION D: 20

GRAND TOTAL: 100