

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

GEOGRAPHY P2

FEBRUARY/MARCH 2011

MARKS: 100

TIME: 11/2 hours

CENTRE							
NUMBER							
EXAMINATION							
NUMBER							

MARK SCORED	100
MARKER	
SENIOR MARKER	
CHIEF MARKER	
MODERATOR	
TOTAL	
	100

This question paper consists of 10 pages and 1 page for rough work.

RESOURCE MATERIAL

- 1. An extract from topographical map 3424BB HUMANSDORP.
- 2. Orthophoto map 3424 BB 1 HUMANSDORP.
- 3. NOTE: The resource material must be collected by the schools for their own use.

INSTRUCTIONS AND INFORMATION

- 1. Fill in your centre number and your examination number in the spaces provided on the cover page.
- 2. Answer ALL the questions in the spaces provided in this question paper.
- 3. You are supplied with a 1:50 000 topographical map 3424BB HUMANSDORP and an orthophoto map of a part of the mapped area.
- 4. You must hand in the topographical map and the orthophoto map to the invigilator at the end of this examination session.
- 5. You must use the blank page at the back of this question paper for all rough work and calculations. Do NOT detach this page from the question paper.
- 6. Show ALL calculations. Marks will be allocated for calculations.
- 7. You may use a non-programmable calculator.
- 8. The following English terms and their Afrikaans translations are shown on the topographical map.

ENGLISH	<u>AFRIKAANS</u>
Diggings	Uitgrawings
Caravan park	Karavaanpark
Sewage works	Rioolwerke
Wetland	Vlei

QUESTION 1

Geography/P2

The questions below are based on the 1:50 000 topographical map 3424BB HUMANSDORP, as well as the orthophoto map of a part of the mapped area. Various options are provided as possible answers to the following questions. Choose the answer and write only the letter (A-D) in the block next to each question.

1.1	Jeffre	eys Bay is situated next to the Ocean.	
	A B C D	Atlantic Pacific Indian Mozambique	
1.2	The	height of the national road in block A4 is	
	A B C D	209 m. 346 m. 20,9 m. 297,3 m.	
1.3	The	direction of X from Y on the topographical map is	
	A B C D	west. east. north-west. south-west.	
1.4	The is	true bearing (geographic bearing) of X from Y on the topographical map	
	A B C D	42°. 132°. 222°. 312°.	
1.5	The	word scale of the orthophoto map is	
	A B C D	1 cm represents 0,01 km. 1 cm represents 0,1 km. 1 cm represents 1 000 m. 1 cm represents 10 m.	
1.6	Jeffre	eys Bay can be classified as a/an	
	A B C D	holiday town. industrial town. gap town. break-of-bulk point.	

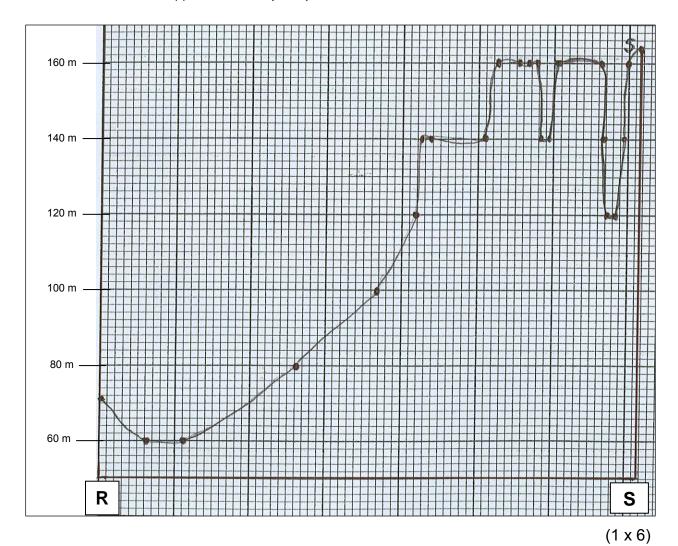
(10 x 2)

[20]

1.7	The s	lope between 5 and 6 on the orthophoto map is	
	A B C D	convex. concave. gentle. steep.	
1.8	The o	rder of the stream at the point labelled $oldsymbol{V}$ on the topographical map is	
	A B C D	first. second. third. fourth.	
1.9	The f	eature that is found at 34°05,8'S 24°50,2'E/34°05'48"S 24°50'30"E is	
	A B C D	furrow. reservoir. wetland. dam.	
1.10	Parad	lise Beach (G8 and G9) developed a shape.	
	A B C D	round cross-road linear stellar	

QUESTION 2

- 2.1 Cross sections provide geographers with valuable information.
 - 2.1.1 The diagram below is a cross section drawn from R in block D4 to **S** in block A7. Indicate the exact location of the following features by means of arrows on the cross section drawn:
 - (a) Power line
 - (b) N2
 - (c) Dam
 - (d) Railway line
 - (e) Tracks and hiking trails
 - Cliff/Scarp slope (f)



2.1.2 Is there any intervisibility between points R and S on the cross section?

> (1×2) (2)

(6)

Why are cross s	ections exaggerated when they are drawn	า?
Calculate the a and 101,7 in bl	verage gradient of the main road between ock B10 on the topographical map. Shoocated for calculations.	
Calculate the a and 101,7 in bl	ock B10 on the topographical map. Sho	
Calculate the a and 101,7 in bl	ock B10 on the topographical map. Sho	
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Calculate the a and 101,7 in bl	ock B10 on the topographical map. Sho	

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	-	the landforms below indicated by letters ${f P},\ {f Q}$ and ${f T}$ on the hical map.	Э
3.1.	.1	P	_
		(1 x 2	<u>?</u>)
3.1.	.2	Q(1 x 2	<u>-</u> ?)
3.1.	.3	т	
		(1 x 2	2)
Ref	er to	the drainage pattern in blocks D6 and D7.	
3.2.	.1	Identify the drainage pattern found in blocks D6 and D7.	
		(1 x 2	<u>-</u>)
3.2.	.2	Give ONE reason for your answer to QUESTION 3.2.1.	
			-
		(1 x 2	2)
3.2.	.3	Name ONE characteristic of the rock type underlying the drainage pattern mentioned in QUESTION 3.2.1.	е
			-
		(1 x 2	<u>?</u>)
Ref	er to	block G1 on the topographical map.	
3.3.	.1	Identify the stream channel pattern in block G1.	
		(1 x 2	<u>?</u>)
3.3.	.2	In which course of the stream will the stream channel pattern mentioned in QUESTION 3.3.1 be found?	n
			-
		(1 x 2)

Refer t	o number 10 on the orthophoto map.
3.4.1	Identify the man-made feature at 10 .
	(1 x 2
3.4.2	Why is the man-made feature mentioned in QUESTION 3.4. located at that place?
	(2 x 2
Refer to	
Refer to 3.5.1	(2 x 2
	(2 x 2) o the settlement at Sanddrift in block E5 on the topographical map.
	(2 x 2) o the settlement at Sanddrift in block E5 on the topographical map. Identify this settlement in terms of its size and function respectively.

3.5.2 (a) What type of farming (commercial/subsistence) is practised in this settlement?

(1 x 2) (2)

(b) Give TWO reasons for your answer to QUESTION 3.5.2(a).

 (2×2) (4)

(1 x 2)

(2) **[40]**

(6)

3.6	Refer to	o the residential areas numbered 11 and 12 on the orthophoto	map.	
	3.6.1	Which ONE of the residential areas 11 and 12 will be income residential area?	a higher	
			(1 x 2)	(2)
	3.6.2	Give ONE reason for your answer to QUESTION 3.6.1.		
			(1 x 2)	(2)
3.7	Refer to	o 13, which is part of Graslaagte, on the orthophoto map.		
	3.7.1	In which land-use zone is Graslaagte situated?		
			(1 x 2)	(2)
	3.7.2	State ONE problem that people living in 13 might experience) .	

QUESTION 4

4.1 Choose a term from COLUMN B that matches a description in COLUMN A. Write only the letter (A - E) next to the question number (4.1.1 - 4.1.3), for example 4.1.4 F.

	COLUMN A	COLUMN B
4.1.1	The raw facts that are collected about a feature	A raster data
		B vector data
4.1.2	Gathering of data about the	O romata consins
	Earth from a distance, using satellites such as Landsat	C remote sensing
	catomico odon do Zanacat	D data base
4.1.3	Data represented by pixels in	
	the form of grid cells or pixels	E data
		(3 x 2)

	(2 x 2
With ref	erence to the term buffering:
4.3.1	Define the term buffering.
	(1 x 2
4.3.2	Explain how buffering can be used to protect the coasta environments visible on the topographical map.
	<u></u>
	(1 x 2)
Which ((1 x 2) ONE, the topographical map or the orthophoto map, is an example of ata?
	ONE, the topographical map or the orthophoto map, is an example of
vector d	ONE, the topographical map or the orthophoto map, is an example of ata?
vector d	ONE, the topographical map or the orthophoto map, is an example of ata? (1 x 2) ice have not been able to track a car hijacking gang in the greater
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ROUGH WORK AND CALCULATIONS