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EKSAMENNUMMER  
EXAMINATION NUMBER

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PUNTE TOTAAL  
TOTAL MARKS

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1030.2

AARDRYKSKUNDE SG  
GEOGRAPHY SG

(VRAESTEL 2)  
(PAPER 2)

NOVEMBER 2005

TYD/TIME: 1½ UUR/HOURS  
PUNTE/MARKS: 60



VRAAG QUESTION	PUNTE MARKS		
	H	T	U
1			
2			
3			
4			
5			
6			
KAF TOTAAL/ HASH TOTAL			

SENIOR SERTIFIKAAT-EKSAMEN  
SENIOR CERTIFICATE EXAMINATION  
2005

Eksaminator se paraaf

Examiner's initials

Eksaminator se nommer

Examiner's number

Hierdie vraestel bestaan uit 8 bladsye en 'n werkblad.  
This question paper consists of 8 pages and a work sheet.

## **GEOGRAPHY SG (SECOND PAPER) - MAPWORK**

The questions in this paper are based on the topographical map 3318DB & DD and 3319CA & CC PAARL of the 1:50 000 SA topographical series and the orthophoto map 3318DB 25 PAARL, which is a section of the mapped area.

### **INSTRUCTIONS**

1. Write your **examination number** in the space provided on the front page of this question paper.
2. All questions are **compulsory**.
3. **Write all the answers on the question paper.**
4. Use the **worksheet** (last page of question paper) for all your calculations.
5. Certain questions can only be answered if the **topographical map and the orthophoto map are studied together**.
6. The scales and key (reference) appear on the **REVERSE SIDE** of the topographical map.
7. The following is a selection of **Afrikaans** words which appear on the map, with their translations:

#### **AFRIKAANS**

Kelder

Kerk

Paarlrots

Taal Monument

#### **ENGLISH**

Cellar

Church

Paarl Rock

Language Monument

8. The topographical map and orthophoto map **MUST** be returned to the invigilator when you have answered the question paper. They become the property of the school.

Study the information below which refers to the urban settlement, Paarl, and which will also provide useful information for answering some of the questions.

	<p><b><u>TEN REASONS TO VISIT PAARL</u></b></p> <ol style="list-style-type: none"> <li>1. Second largest outcrop (exposure) of granite in the Southern Hemisphere (Paarl Rock)</li> <li>2. The only Language Monument in the world</li> <li>3. Highest church steeple in South Africa (NG Toringkerk)</li> <li>4. Oldest church still in use in South Africa (Strooidakkerk)</li> <li>5. Oldest existing coopery in South Africa (FS Smit &amp; Co). A coopery makes vats for the storing of wine.</li> <li>6. Largest wine cellar (under one roof) in South Africa (KWV)</li> <li>7. Longest main road in South Africa (11 km)</li> <li>8. First step of Nelson Mandela's walk to freedom from Victor Verster jail (now Drakenstein Prison)</li> <li>9. Third largest mosque in South Africa (Masjidul, Lapperts Street)</li> <li>10. Only kosher wine estate in South Africa (Zandwijk)</li> </ol>
<p>A mere 40 minute drive outside Cape Town, at the foot of Paarl Mountain lies Paarl, the third oldest settlement in South Africa. Paarl, with its 75 000 inhabitants, is today the biggest town in the Cape Winelands.</p>	

Source: *Sunday Times*

**QUESTION 1: MAP SKILLS**

*Two well-known sports events in Paarl are the Paarl Boxing Day Sports and the Berg River canoe marathon.*

1.1 The organizers of the Paarl Boxing Day Sports would like to organise a street mile along the length of Lady Grey Street between points A and B on the orthophoto map. Calculate the distance between A and B in kilometres.

4x1 [4]

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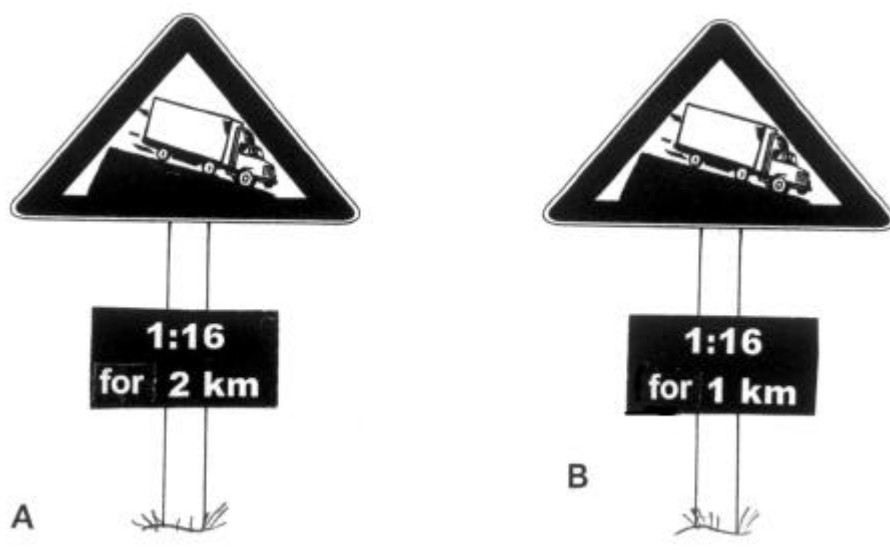
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1.2 *Every year, the Berg River canoe marathon starts at the Kalkoentjiesdrift Bridge indicated at C on the orthophoto map. Canoeists then row downstream to finish at Velddrif.*

In what direction does the Berg River flow? Give one reason from the topographical map and orthophoto map to support your answer. 2x2 [4]

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1.3 *Drivers of heavily loaded trucks experience problems to controlling their vehicles between the points indicated D and E on the topographical map. The Traffic Department of Paarl would like to warn the drivers about the steep slope by erecting one of the following road signs:*



Which one of the two signs should be erected?  
Mark the appropriate block with an X. 1x2 [2]

A	B
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**QUESTION 2: THE WEMMERSHOEK DAM, PAARL'S WATER SUPPLY**

*The Wemmershoek Dam serves as the main water source for Paarl. The water in the dam is so clear that it can be purified very cheaply.*

- 2.1 Give ONE indication from the topographical map that the dam is used for drinking water. 1x2 [2]

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- 2.2 The statistics below represent the total annual rainfall at the weather station close to the CBD in Paarl and of the weather station at the Wemmershoek Dam. The distance between the two weather stations is approximately 20 km.

Close to CBD	525 mm
Wemmershoek Dam	1025 mm

- 2.2.1 Why can the location of the Wemmershoek Dam be regarded as ideal if the rainfall is taken into account? 1x2 (2)

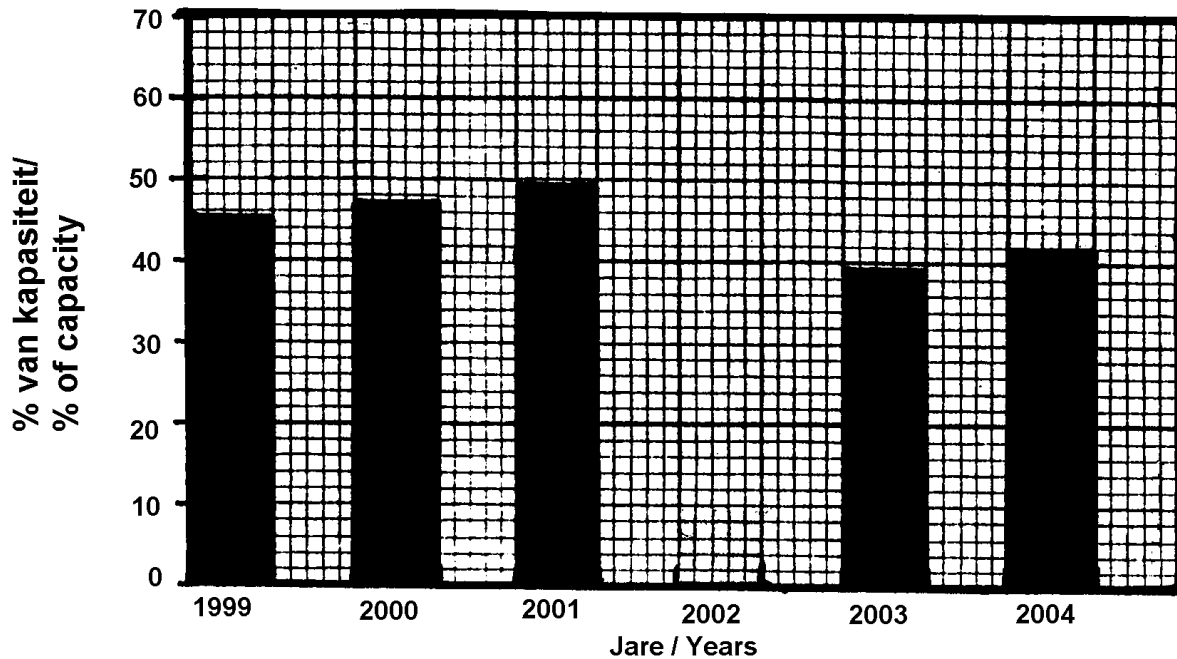
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- 2.2.2 Why is there such a large difference in rainfall between the two weather stations? 1x2 (2)

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.....

[4]

2.3 The bar graph below represents the storage levels of the Wemmershoek Dam between 1999 and 2004. Answer the questions that follow.



- 2.3.1 The storage level of the dam in 2002 was 57,7%. Complete the graph by drawing in the bar for 2002. 1x2 (2)
- 2.3.2 In which year did the dam reach its lowest storage level? 1x2 (2)
- 2.3.3 Between which two years do we find the sharpest increase in storage levels of the dam? 2x2 (4) [8]

/14/

**QUESTION 3:      GEOMORPHOLOGY – THE PEARL OF SOUTH AFRICA**

*The town of Paarl was named after the massive granitic intrusion which appears like a pearl when the sun's rays strike it at a certain angle.*

- 3.1 **Indigenous knowledge systems:** Because of the shape of the structural landscape at F on the topographical map, Paarl Rock was called Skilpadberg (Tortoise mountain) by the Khoi (indigenous people of this area). With which type of structural landscape, massive igneous rock or inclined sedimentary strata, can Paarl Rock, indicated at F on the orthophoto map be associated? Give a reason for your answer. 2x2 [4]

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3.2 Is Paarl Rock an exposed batholith or a laccolith? 1x2 [2]

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.....

/6/

**QUESTION 4: PAARL, A MECCA FOR TOURISTS**

*Many tourists visit Paarl annually because of its historical significance and to taste the world-renowned wines on the many wine routes of the region.*

Make use of the information listed in the “Ten reasons to visit Paarl” on page 3 to identify the tourist attractions found at the point indicated G, H and I on the topographical map.

3x2 [6]

G .....

H .....

I .....

/6/

**QUESTION 5: PAARL IN THE CAPE WINELANDS**

*The fertile soil and Mediterranean climate provide perfect conditions for farming.*

What indications are there on the topographical map, the orthophoto map and in the information on “Ten reasons to visit Paarl” that grape farming is highly commercialized in Paarl?

3x2 [6]

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/6/

**QUESTION 6:**

**URBAN AREA OF PAARL**

6.1 Photos 1, 2, 3 and 4 represent the buildings in the zone of decay indicated at J, K, L and M respectively on the orthophoto map. Identify some of the functions that can be found in Paarl's zone of decay, as represented by any THREE of the photos. 3x2 [6]

PHOTO 1 .....

PHOTO 2 .....

PHOTO 3 .....

PHOTO 4 .....

6.2 Name THREE functions that are found in the rural urban fringe of Paarl, found between the 33° 44'S and 33° 47'S on the topographical map. 3x2 [6]

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6.3 Describe the factors which favour the location of the industry indicated at N on the topographical map. 3x2 [6]

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**/18/**

**GRANDTOTAL: /60/**