

**education**

Department:  
Education  
**REPUBLIC OF SOUTH AFRICA**

100

**SENIOR CERTIFICATE EXAMINATION - 2007**

CANDIDATE'S EXAMINATION NUMBER:																			
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**GEOGRAPHY P2**  
**HIGHER GRADE**  
**FEBRUARY/MARCH 2007**  
**502-1/2**

**GEOGRAPHY HG: Paper 2  
Question Paper & Maps**

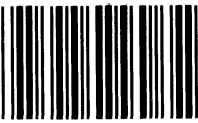


**MARKS: 100**

**TIME: 1½ hours**

This question paper consists of 11 pages, 1 topographical map and 1 orthophoto map.

**X05**



**INSTRUCTIONS AND INFORMATION**

1. Answer ALL the questions.
2. The questions in this paper are based on the 1:50 000 SA topographical map, 3322CA Oudtshoorn and the 1:10 000 SA orthophoto map 3322CA which is a section of the mapped area.
3. Write your examination number, as well as centre number in the spaces provided on the front page of the question paper.
4. Answer ALL the questions ON the question paper.
5. Use the last page of the question paper for ALL your rough work.
6. Certain questions can only be answered if the topographical map and the orthophoto map are studied together.
7. On completion of this question paper the question paper, as well as the topographical map and orthophoto map must be returned to the invigilator. These become the property of the school.
8. A glossary of some of the English and Afrikaans words and their translations appear on the next page.

### GLOSSARY

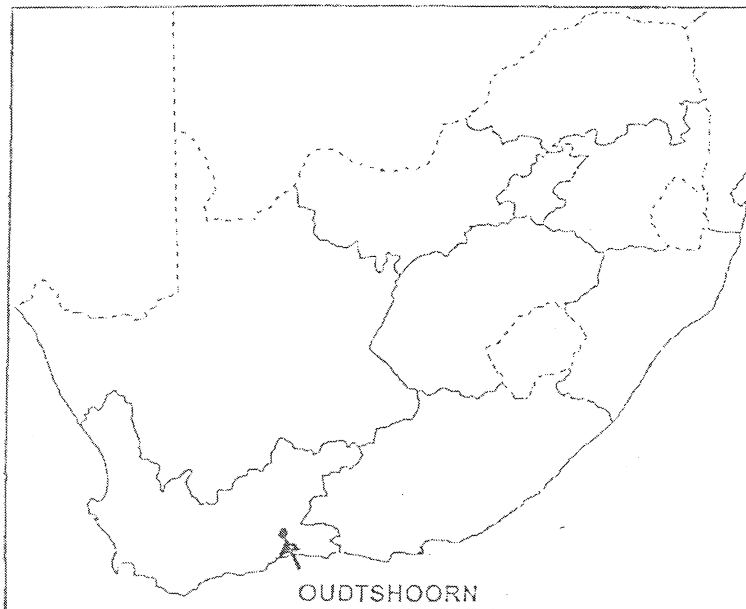
English

Cemetery  
Diggings  
Canal  
Golf Course  
Hospital  
Furrow  
Game Park  
Sewage Disposal Works  
Showgrounds  
Aerodrome  
Drive-in theatre  
Rifle Range  
Race Track  
Brickfields  
Tourist Camp

Afrikaans

Begraafplaas  
Uitgrawings  
Kanaal  
Golfbaan  
Hospitaal  
Voor  
Wildspark  
Rioolwerke  
Skougronde  
Vliegveld  
Inry-teater  
Skietbaan  
Renbaan  
Steenwerke  
Toeriste Kampeerterrein

### POSITION OF OUDTSHOORN WITHIN SOUTH AFRICA



**SECTION A****QUESTION 1: MULTIPLE-CHOICE QUESTIONS**

Refer to the 1:50 000 topographical map 3322CA and the 3322CA orthophoto map of Oudtshoorn (attached) to answer the questions that follow:

Various possible options are provided as answers for the following questions. Write only the letter (A - D) next to the question number (1.1 – 1.10) in the block provided on the right-hand side of the page.

1.1 The scale of the topographical map is ... times smaller than the scale of the orthophoto map.

- A 20
- B 5
- C 10
- D 50

1.2 The contour interval of the orthophoto map is ... metres.

- A 10
- B 20
- C 5
- D 50

1.3 The map reference number in the index of sheets to the east of Oudtshoorn on the topographical map 3322CA, is ...

- A 3322AC.
- B 3321DB.
- C 3322CC.
- D 3322CB.

1.4 The feature at grid reference 33°42'30"S and 22°11'35"E on the topographical map, is a ...

- A spot height.
- B trigonometrical station.
- C bench-mark.
- D dam.

1.5 The physical feature at A (block I 6/7) on the topographical map, is a/an ...

- A ox-bow lake.
- B river island.
- C waterfall.
- D rapid.

1.6 The primary economic activity taking place at B on the orthophoto map, is ...

- A forestry.
- B mining.
- C crop farming.
- D fishing.

1.7 The land use found at C on the orthophoto map, is a ...

- A shop.
- B golf course.
- C post office.
- D hospital.

1.8 The secondary economic activity taking place at D on the orthophoto map, is ...

- A farming.
- B industry.
- C sewage disposal.
- D education.

1.9 The roads that links De Rust in the east to Calitzdorp in the west on the topographical map, are the ...

- A R62 and N2.
- B main road and other roads.
- C N2 and N12.
- D N12 and R62.

1.10 The main means of transporting water from the rivers to the agricultural land on the topographical map, is by ...

- A furrows and windpumps.
- B canals and furrows.
- C canals and windpumps.
- D pipelines and furrows.

**TOTAL SECTION A: (10 x 2) 20**

**SECTION B**

**QUESTION 2: MAPWORK TECHNIQUES AND CALCULATIONS**

2.1 Explain the meaning of the term *magnetic declination*.

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(2)

2.2 Give the approximate height of the brickfields at E on the topographical map.

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(1 x 2)

(2)

2.3 Calculate the area in square kilometres (km<sup>2</sup>) of the region covered by the orthophoto map on the topographical map.

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(4)

2.4 Calculate the average gradient between spot height 317 (F in block G15) and trigonometrical station 286 (G in block E14) on the topographical map. Show ALL calculations.

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(6)



2.5 What do contour lines, trigonometrical stations, spot heights and bench-marks all have in common?

\_\_\_\_\_

\_\_\_\_\_ (1 x 2) (2)

2.6 Refer to Grootkop (G in block E14) and the brickfields (E in block E13). Are these two places intervisible? Give a reason for your answer.

Answer: \_\_\_\_\_ (1 x 2) (2)

Reason: \_\_\_\_\_ (1 x 2) (2)

**TOTAL SECTION B: 20**

**SECTION C**

**QUESTION 3: RELIEF AND DRAINAGE**

3.1 Give a reason for the winding course of the N12 to the south-east of Outshoorn on the topographical map.

\_\_\_\_\_

\_\_\_\_\_ (1 x 2) (2)

3.2 Rainfall over the mapped area is seasonal and at times unreliable. Give TWO pieces of evidence, from the map, of measures farmers have used to overcome the problem of water shortage during times of low rainfall.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (2 x 2) (4)

3.3 In which general direction is the Olifantsrivier (H) flowing?  
Give TWO reasons for your answer.

Answer: \_\_\_\_\_ (1 x 2) (2)

Reason: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 x 2) (4)

3.4 Refer to the stream pattern I on the topographical map (attached).

3.4.1 Identify the stream pattern.  
\_\_\_\_\_ (1 x 2) (2)

3.4.2 Name the rock type responsible for this pattern identified in QUESTION 3.4.1.  
\_\_\_\_\_ (1 x 2) (2)

3.5 Expansion of the town of Oudtshoorn towards the north-east is limited.  
Provide TWO physical factors, from the map, hindering expansion of the town in this direction.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 x 2) (4)

**[20]**





**QUESTION 4: SETTLEMENT AND ECONOMIC ACTIVITIES**

4.1 The town of Oudtshoorn has a rich cultural heritage. Give TWO pieces of evidence, from the map, to support this statement.

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(2 x 2) (4)

4.2 Name the services found in the rural-urban fringe of Oudtshoorn at the following places on the orthophoto map (attached).

4.2.1 J \_\_\_\_\_

(1 x 2) (2)

4.2.2 K \_\_\_\_\_

(1 x 2) (2)

4.2.3 Give TWO reasons why services J and K are found in the rural-urban fringe.

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(2 x 2) (4)

4.3 Refer to the street pattern L (block G13) on the topographical map (attached).

4.3.1 Identify the street pattern.

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(1 x 2) (2)

4.3.2 State ONE disadvantage of this street pattern.

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(1 x 2) (2)



4.4 The area of Bongoletu (T) on the orthophoto map shows characteristics of a low-income residential area. Give ONE piece of evidence, from the orthophoto map, to support this statement.

\_\_\_\_\_  
\_\_\_\_\_  
(1 x 2) (2)

4.5 Name the physical factor that separates the town of Oudtshoorn into the eastern and western parts.

\_\_\_\_\_  
\_\_\_\_\_  
(1 x 2) (2)

4.6 Identify the rural settlement pattern at each of the following places on the topographical map:

4.6.1 M (block C14) \_\_\_\_\_ (1 x 2) (2)

4.6.2 N (block E5 ) \_\_\_\_\_ (1 x 2) (2)

4.7 Commercial farming occurs along all the major perennial rivers. Explain any THREE factors, besides the factors related to water supply, that favoured this type of farming.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(3 x 2) (6)

4.8 Oudtshoorn is an important tourist destination. Using the map, list any TWO recreational opportunities that the town offers to tourists.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(2 x 2) (4)



4.9 The economic activity occurring at O (F/E15) on the topographical map leads to environmental damage.

4.91 Identify the activity responsible for this environmental problem.

\_\_\_\_\_ (1 x 2) (2)

4.9.2 Suppose you are an environmental officer in Oudtshoorn, suggest TWO recommendations you would make to the authorities to restore (make good) the affected area.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 x 2) (4)  
**[40]**

**TOTAL SECTION C: 60**  
**GRAND TOTAL: 100**

