

education

Department:
Education
REPUBLIC OF SOUTH AFRICA

100

SENIOR CERTIFICATE EXAMINATION - 2006

CENTRE NUMBER:										
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CANDIDATE'S EXAMINATION NUMBER:																	
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GEOGRAPHY PAPER 2
HIGHER GRADE
OCTOBER/NOVEMBER 2006
502-1/2E

GEOGRAPHY HG: Paper 2
Question Paper & Maps



MARKS: 100

TIME: 1½ hours

This question paper consists of 10 pages, 1 topographical map and 1 orthophoto map.



INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
2. The questions in this question paper are based on the 1:50 000 SA topographical map, 3419 AB Caledon, and the 1:10 000 SA orthophoto map 3419 AB 24, which is a section of the mapped area.
3. Write your examination number in the space provided on the front page of this question paper.
4. Answer ALL the questions ON this 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

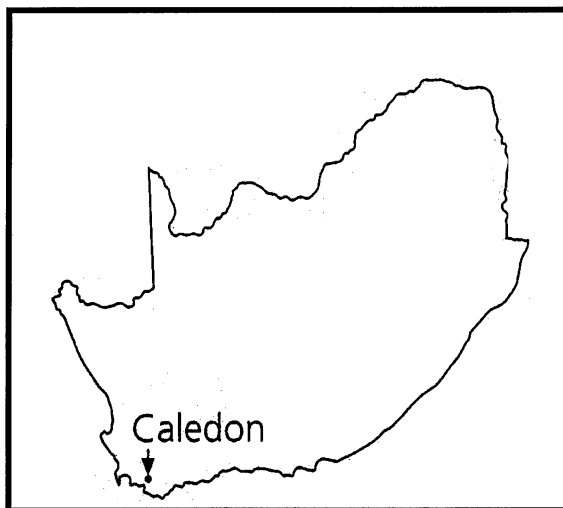
English

Cemetery
Diggings
Hot Springs
Golf Course
Hospital
Wild Flower Garden
Nature Reserve
Sewage Works
Show Grounds

Afrikaans

Begraafplaas
Uitgrawings
Warmwaterbronne
Golfbaan
Hospitaal
Veldblomtuin
Natuurreservaat
Rioolwerke
Skougronde

POSITION OF CALEDON WITHIN SOUTH AFRICA



SECTION A

QUESTION 1: MULTIPLE-CHOICE QUESTIONS

Refer to the 1:50 000 topographical map 3419 AB and the 3419 AB 24 orthophoto map of Caledon (attached) to answer the following questions:

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 province in which Caledon is situated is ...
- | | | |
|---|----------------|---|
| A | KwaZulu/Natal. | <input style="width: 40px; height: 30px;" type="checkbox"/> |
| B | Eastern Cape. | |
| C | North West. | |
| D | Western Cape. | |
-
- 1.2 Caledon receives most of its rain in the ... season.
- | | | |
|---|--------|---|
| A | summer | <input style="width: 40px; height: 30px;" type="checkbox"/> |
| B | winter | |
| C | autumn | |
| D | spring | |
-
- 1.3 What is the contour interval of the orthophoto map?
- | | | |
|---|-----------|---|
| A | 20 metres | <input style="width: 40px; height: 30px;" type="checkbox"/> |
| B | 25 metres | |
| C | 5 metres | |
| D | 15 metres | |
-
- 1.4 The topographical map number 3419 refers to the ...
- | | | |
|---|-------------------------------|---|
| A | longitudes and latitudes. | <input style="width: 40px; height: 30px;" type="checkbox"/> |
| B | latitudes and longitudes. | |
| C | contour lines and isobars. | |
| D | longitudes and contour lines. | |
-
- 1.5 The scale of the orthophoto map is ... times bigger than the scale of the topographical map.
- | | | |
|---|----|---|
| A | 10 | <input style="width: 40px; height: 30px;" type="checkbox"/> |
| B | 50 | |
| C | 5 | |
| D | 20 | |



- 1.6 Caledon is situated half way between two metropolitan areas, namely ...
- A the PWV region and Durban-Pinetown.
B Durban-Pinetown and Port Elizabeth-Uitenhage.
C Port Elizabeth-Uitenhage and Cape Town.
D Cape Town and the PWV region.
- 1.7 The street patterns evident in the suburb Vleiview (block O12) on the topographical map are ...
- A gridiron and irregular.
B irregular and circular.
C circular and gridiron.
D radial and irregular.
- 1.8 What natural feature is found at 34°10'00"S and 19°22'56"E on the topographical map?
- A River
B Spur
C Dam
D Marsh and vlei
- 1.9 The Caledon Casino and Spa Resort in block N12 is not visible from Lemoenskop in block L 10 because of the presence of the ...
- A spur.
B diggings.
C river.
D N2.
- 1.10 Caledon is classified as a ... town.
- A mining
B break-of-bulk
C central place
D fording/bridging

TOTAL SECTION A: (10 x 2) 20

SECTION B

QUESTION 2: MAPWORK TECHNIQUES AND CALCULATIONS

2.1 Calculate the average gradient from trigonometrical station 103 (block L15) to Die Plaat ●832 (block M13). Show ALL calculations.

(5)

2.2 Calculate the magnetic declination for the year 2006. Show ALL calculations.

(5)

2.3 Calculate the vertical exaggeration of a cross section if the vertical scale is 1 cm and represents 40 m and the horizontal scale is 1:50 000. Show ALL calculations.

(5)



2.4 Calculate the area of the region demarcated (marked off) by the letter H on the topographical map in square kilometres (km²). Show ALL calculations.

(5)

TOTAL SECTION B: 20

SECTION C

QUESTION 3: RELIEF AND DRAINAGE

3.1 Refer to the Riviersonderend River on the topographical map (attached) and answer the following questions:

3.1.1 What is the general direction of flow of the river?

(1 x 2) (2)

3.1.2 The mapped area shows that the Riviersonderend River has reached its (upper, middle, lower) course. Choose the correct answer.

(1 x 2) (2)

3.1.3 List TWO pieces of evidence from the map to substantiate your answer in QUESTION 3.1.2.

(2 x 2) (4)

3.2 Identify the stream pattern in block K15.

(1 x 2) (2)



3.3 The Riviersonderend mountains form part of the (Cape Fold Mountains, Great Escarpment). Choose the correct answer.

_____ (1 x 2) (2)

3.4 The Theewaterskloof Dam has an ideal (good) location. List any TWO physical factors that have influenced the construction of the dam at this location.

_____ (2 x 2) (4)

3.5 Is the slope in block H10 a gentle or a steep slope? Give a reason for your answer.

_____ (2 x 2) (4)

[20]

QUESTION 4: SETTLEMENT

4.1 The CBD of Caledon is found at F (in block N11). Give TWO pieces of evidence from the map to substantiate this statement.

_____ (2 x 2) (4)

4.2 Tuinsig is a high-income residential area. Give TWO reasons from the orthophoto map (attached) to support this statement.

_____ (2 x 2) (4)

4.3 In which urban land-use zone is the cemetery (block O11) located?

_____ (1 x 2) (2)



- 4.4 Give ONE piece of evidence from the topographical map (attached) which indicates that the inhabitants of Caledon practise environmental conservation.
_____ (1 x 2) (2)
- 4.5 Identify the settlement pattern found in block L2.
_____ (1 x 2) (2)
- 4.6 The sewage works in block E8 has a good location. State ONE advantage of its location.

_____ (1 x 2) (2)
- 4.7 The numerous industries situated south of Caledon may pose a major threat to its residents especially during winter. Explain this statement with reference to air pollution.

_____ (2 x 2) (4)
[20]



QUESTION 5

Use the orthophoto map (attached) to answer the following questions:

5.1 By referring to the shadows of the buildings, indicate whether the photograph was taken before noon or after noon.

_____ (1 x 2) (2)

5.2 State THREE physical factors that influenced the siting of Caledon.

_____ (3 x 2) (6)

5.3 If you were to promote tourism in and around Caledon, name any TWO features you would consider important in attracting tourists to the area.

_____ (2 x 2) (4)

5.4 Identify the features found at D and E on the orthophoto map:

5.4.1 D _____ (1 x 2) (2)

5.4.2 E _____ (1 x 2) (2)

5.5 Give ONE factor that influenced the location of the hospital in the rural-urban fringe to the south of Caledon.

_____ (1 x 2) (2)

5.6 State the physical factor that restricted (hindered) the construction of an aerodrome at Caledon.

_____ (1 x 2) (2)

[20]

TOTAL SECTION C: 60

GRAND TOTAL: 100

