

GEOGRAPHY SG (Second Paper)	502-2/2 L	2
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**GAUTENG DEPARTMENT OF EDUCATION
SENIOR CERTIFICATE EXAMINATION**

**OCTOBER / NOVEMBER 2005
OKTOBER / NOVEMBER 2005**

GEOGRAPHY SG
**(Second Paper: Map and Aerial
Photograph Interpretation)**

TIME: 1½ hours

MARKS: 60

RESOURCE MATERIAL:

- An extract from the topographical map of Estcourt
- An extract from the orthophoto map of Estcourt

REQUIREMENTS:

- Candidates must supply their own equipment and may make use of a standard calculator and a magnifying glass.

INSTRUCTIONS:

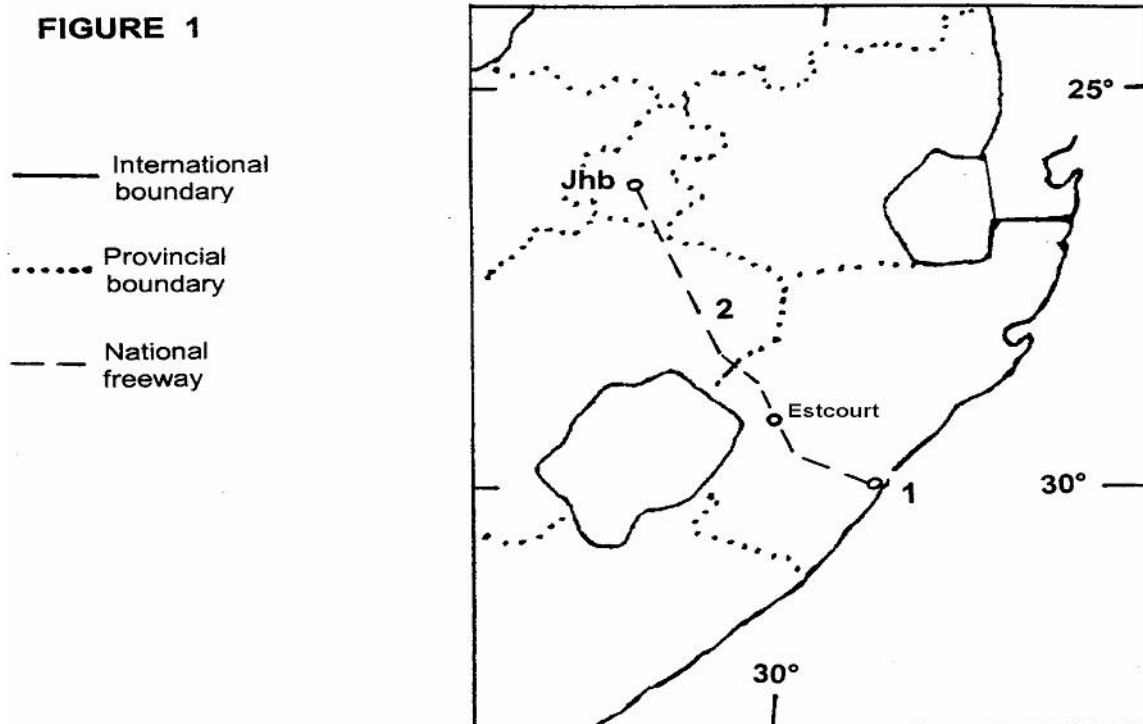
- Answer ALL the questions.
- In the case of calculations, **all steps** must be shown.
- The resource material (i.e. the topographical map and the orthophoto map) must be collected by the schools for their own further use.
- Candidates must draw on their knowledge of physical and human geography to answer the questions.
- The positions of features are indicated as follows:
 - Capital letters on the topographical map
 - Numbers on the orthophoto map

The following English terms with their Afrikaans equivalents appear on the topographical map:

Boat club	- <i>Bootklub</i>	Nature Reserve	- <i>Natuurreservaat</i>
Boesmans River	- <i>Boesmansrivier</i>	Rail Route	- <i>Spoorroete</i>
Furrow / Canal	- <i>Voor / Kanaal</i>	Rifle Range	- <i>Skietbaan</i>
Landing Strip	- <i>Landingstrook</i>	Sewage Works	- <i>Rioolwerke</i>
Monument	- <i>Monument</i>	Weir	- <i>Stuwal / uitkeerwal</i>

QUESTION 1

Refer to Figure 1.

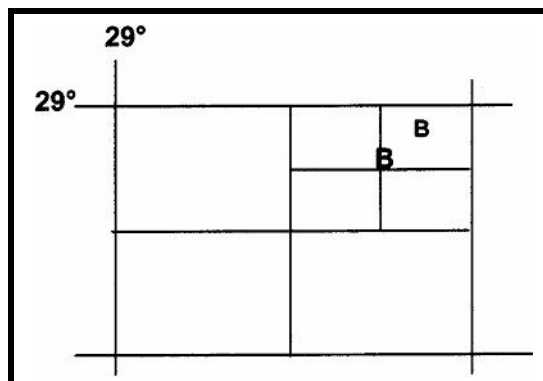


- 1.1 In which province is Estcourt located? (1)
- 1.2 Name any TWO provinces bordering the one in which Estcourt is located. (2)
- 1.3 Name the harbour marked 1. Choose from : Durban / Maputo / Richardsbay / East London. (1)
- 1.4 Give the number of the route marked 2. Choose from: N1 / N2 / N3 / N4. (1)

[5]

QUESTION 2

- 2.1 The map index reference of Estcourt, namely 2929BB, is indicated on the diagram on the next page. Give the complete map index reference of the topographical map directly north of the Estcourt one. (2)



- 2.2 Name ONE advantage that an orthophoto map has over a topographical map. (2)
- 2.3 Calculate the distance of the railway line from the middle of the railway station in Estcourt (block A8) in a north-westerly direction to where it ends at the edge of the map. (3)
- 2.4 Which neighbouring town of Estcourt can be reached with this railway line? (1)
- 2.5 Measure the true bearing from spot height 1376 (block D7) to spot height 1292 (block B5). (2)
- 2.6 Give the co-ordinate of the Maritz Monument in block A9. (4)
- [14]**

QUESTION 3

- 3.1 What is the name of the main river which appears on the mapped area? (1)
- 3.2 What is the general direction of flow of this river (Question 3.1)? (1)
- 3.3 Name the general stream pattern in block F6. (1)
- 3.4 Study the landforms which are marked **O** (block G11), **P** (block B11) and **Q** (block A11).
- 3.4.1 Name the landforms which are indicated as **O**, **P** and **Q**. 3x2=(6)
- 3.4.2 Which type of rocks do these landforms most probably consist of? (1)

[10]

QUESTION 4

- 4.1 Commercial farming is mainly practised in block C4, while subsistence farming mainly occurs in block F3.
- 4.1.1 Briefly describe ONE characteristic of commercial farming as it is found in block C4. 1x2=(2)
- 4.1.2 Briefly describe ONE characteristic of subsistence farming as it is found in block F3. 1x2=(2)
- 4.1.3 Which type of settlement pattern (nucleated or isolated) appears in blocks C4 and F3, respectively? 2x2=(4)
- 4.2 Soil erosion is common in blocks A12, B12 and C12 on the topographical map.
- 4.2.1 According to the topographical map, what is the most probable cause of this soil erosion? 1x2=(2)
- 4.2.2 How can further soil erosion here probably be solved or limited? 1x2=(2)
- [12]**

QUESTION 5

- 5.1 Refer to block F4 on the topographical map.
- 5.1.1 What is the name of the settlement which has been established here? (1)
- 5.1.2 What is most probably the reason why this settlement has a linear shape? 1x2=(2)
- 5.2 Name the street pattern at **10** on the orthophoto map. (2)
- 5.3 List TWO disadvantages of this street pattern (Question 5.2). 2x2=(4)
- 5.4 The N3 freeway does not go through the middle of Estcourt. This implies both advantages and disadvantages for the town.
- 5.4.1 Name ONE advantage. (2)
- 5.4.2 Name ONE disadvantage. (2)
- 5.5 Identify the land-use at each of the following points on the orthophoto map:
- 5.5.1 11 (2)
- 5.5.2 12 (2)
- 5.5.3 13 (2)
- [19]**

TOTAL: 60**END**

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Please refer to the colours of the topographic map.

The colours of the map, especially the **brown**, are not quite true. Learners are advised to consult the key or reference at the bottom of the map.

AARDRYKSKUNDE – VRAESTEL 2 – HG

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Verwys asseblief na die kleure op die topografiese kaart.

Die kleure op die kaart, veral die **bruin**, is nie heeltemal korrek nie. Leerders word aangeraai om die sleutel of verklaring onderaan die kaart te raadpleeg.