

# NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

**GEOGRAPHY P2** 

**EXEMPLAR 2008** 

TIME: 1½ hours

NAME:

**MARKS: 100** 

SCHOOL:

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

#### **RESOURCES**

- 1. An extract from the topographical map, 2726DC, ODENDAALSRUS orthophoto map, 2726DC 14, ODENDAALSRUS
- 2. NOTE: The resource material must be collected by the schools for their own use.
- 3. A non-programmable calculator may be used.

#### **INSTRUCTIONS AND INFORMATION**

- 1. Write your NAME and that of your SCHOOL in the spaces provided.
- 2. Answer ALL the guestions in the spaces provided on this guestion paper.
- 3. You are supplied with a 1:50 000 topographical map, 2726DC, ODENDAALSRUS and an orthophoto map of a part of the same area.
- 4. The topographical map and the orthophoto map must be handed over to the invigilator at the end of the examination session.
- 5. The following Afrikaans terms or their English translations are shown on the 1:50 000 topographical map.

AFRIKAANS	ENGLISH
Kanaal/Voor	Canal/Furrow
Skag	Shaft
Uitgrawings	Diggings
Vervoerband	Conveyer belt
Steengroewe	Quarries
Oopgroefmyn	Opencast mine
Diensspoorlyn	Service railway line
Motorrenbaan	Motor race-track
Hospitaal	Hospital
Stadion	Stadium
Seiljagklub	Yacht club
Slikdam	Slime dam
Vliegveld	Aerodrome
Gholfbaan	Golf course
Rioolwerke	Sewerage works

### **QUESTION 1**

The following questions are based on the 1:50 000 topographical map, 2726DC, ODENDAALSRUS as well as the orthophoto map of the same area. Various possible options are provided as answers to the following questions. Choose the answer and write only the letter (A - D) in the block next to each question (1.1 - 1.10).

1.1	The num	ber of the map to the west of map 2726DC ODENDAALSRUS is	
	A B C D	2726DA. 2826BA. 2726DD. 2726CD.	
1.2	The exac	ct location (coordinates) of the windmill in block E5 is	
	A B C D	26°43′09″S 27°55′05″E. 27°55′05″S 26°43′09″E. 26°40′05″S 27°50′10″E. 27°50′10″S 26°40′05″E.	
1.3	The direction is	ction of spot height 1385 (block F6) from spot height 1364 (block E5)	
	A B C D	south-west. west. south-east. south.	
1.4	The mar a/an	n-made feature labelled <b>A</b> on the topographical map in block E6 is	
	A B C D	main road. arterial route. secondary road. national road.	
1.5	The cont	our interval of the topographical map is	
	A B C D	5 m. 20 m. 10 m. 25 m.	

1.6	The natur	al feature marked <b>B</b> on the topographical map in block G2 is a	
	A B C D	dry pan. perennial river. non-perennial river. marsh and vlei.	
1.7	The map	projection used on the orthophoto map is	
	A B C D	Mercator. Lambert. Gauss conform. universal transverse.	
1.8	The ortho	photo map only depicts the part of the topographical map.	
	A B C D	south-eastern south-western north-western northern	
1.9		direction of the aeroplane when the photographs for the orthophoto taken, was	)
	A B C D	southwards. westwards. eastwards. northwards.	
1.10	The area	marked <b>1</b> on the orthophoto map is (a)	
	A B C D	mining area. non-perennial water. mine dump.	
	D	recreational area. (10 x 2)	[20]

## **QUESTION 2**

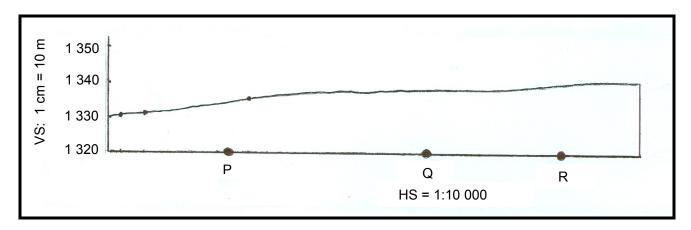
2.1 Calculate the actual (real) distance from point **5** to point **6** on the orthophoto map. Show ALL the calculations. Express your answer in kilometres.

\_ (3)

2.2 How long would you take to travel from point **5** to point **6** if you travelled at 80 km/h? Show ALL the calculations.

(2)

2.3 The following cross section was drawn from point **7** to point **8** on the orthophoto map.

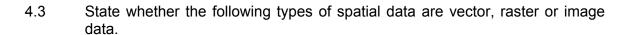


					(3 x 2
Calculate the calculations.	vertical exagge	eration of the	cross section.	Show A	LL th
1357 (D6).	e average gradie Use the straighte e calculations.	ent from bench	nmark 1341 (C4	4) to bend	chmarl
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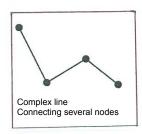
2.5.3	Explain y	your answer to QUESTION 2.5.2.
OUES.	TION 3	
3.1	The map	oped area experiences seasonal rainfall. Support the statement with e from the map.
		(1 x 2)
3.2		lent on the map that groundwater is used to supplement the scarce water during the dry season. Support this statement with evidence map.
		(1 x 2)
3.3	Find the	golf course in block A3 on the topographical map.
	3.3.1	Which physical feature played a role in selecting the site for the golf course?
		(1 x 2)
	3.3.2	What is the advantage of selecting the site close to the feature mentioned in QUESTION 3.2.1?
		(1 x 2)
	3.3.3	Why would the site selected for the golf course not be suitable for a residential area?
		(2 x 2)

	s labelled <b>2, 3</b> and <b>4</b> on the orthophoto map.
	(3 x 2
Find the	e Phakisa motor race-track in block D4.
3.5.1	In which urban land-use zone is the race-track situated?
	(1 x 2
3.5.2	Why would one find the race-track in the land-use zone mentione in QUESTION 3.5.1?
	(2 x 2
	o urban settlements, Odendaalsrus and Welkom, can be seen on the aphical map.
3.6.1	In terms of the urban hierarchy, which of the two settlements wi have a higher hierarchical order?
	(1 x 2
3.6.2	Give a reason for your answer to QUESTION 3.6.1
	(1 x 2
3.6.3	Which settlement will have a larger sphere of influence?
	(1 x 2
3.6.4	Give a reason for your answer to QUESTION 3.6.3.

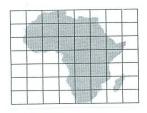
	What is the dominant (main) street pattern of Odendaalsrus in block B3?
	(1 x 2)
3.6.6	State ONE advantage of the street pattern in QUESTION 3.6.5.
	(1 x 2)
STION 4	
display d	nical Information Systems (GIS) can store, manage, analyse and ata. To manage the data in GIS you must look at the different parts be up the system. Name any TWO parts of GIS that make up the
	(2 x 2)



4.3.1



4.3.2



4.3.3



 $(3 \times 2)$  (6)

- 4.4 Geographical information is obtained in a number of ways.
  - 4.4.1 State any TWO ways in which geographical information can be obtained.

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 $\overline{(2 \times 2)}$  (4)

4.4.2 What is a geographical database?

(1 x 2) (2) **[20]** 

**TOTAL: 100**