

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 10

GEOGRAPHY P2

EXEMPLAR 2012

MARKS: 75

TIME: 11/2 hours

LEARNER'S	
NAME	

TOTAL	15	20	25	15	75
MARK SCORED					
MARKER					
MODERATOR					

This question paper consists of 9 pages and 1 page for rough work.

NSC - Grade 10 Exemplar

RESOURCE MATERIAL

- 1. An extract from topographical map 3424BB HUMANSDORP.
- 2. Orthophoto map 3424BB 1 HUMANSDORP.
- NOTE: The resource material must be collected by the school for their own use.

INSTRUCTIONS AND INFORMATION

- 1. Write your name in the space provided on the cover page.
- 2. Answer ALL the questions in the spaces provided in this question paper.
- 3. You are supplied with a 1:50 000 topographical map 3424BB HUMANSDORP and an orthophoto map of a part of the mapped area.
- 4. You must hand the topographical map and the orthophoto map to the invigilator at the end of this examination session.
- 5. You must use the blank page at the back of this paper for all rough work and calculations. Do NOT detach this page from the question paper.
- 6. Show ALL calculations and the formulae where applicable. Marks will be allocated for this.
- 7. You may use a non-programmable calculator.
- 8. The following English terms or their Afrikaans translations are shown on the topographical map.

<u>ENGLISH</u>	<u>AFRIKAANS</u>
Diggings	Uitgrawings
Caravan Park	Karavaanpark
Sewage Works	Rioolwerke
River Mouth	Riviermond
Golf Course	Gholfbaan
Wetland	Vlei

QUESTION 1: MULTIPLE-CHOICE QUESTIONS

The questions below are based on the 1:50 000 topographical map 3424BB HUMANSDORP, as well as the orthophoto map of a part of the mapped area. Various options are provided as possible answers to the following questions. Choose the answer and write only the letter (A–D) in the block next to each question.

1.1	The	map reference of the topographical map north of Humansdorp is	
	A B C D	3325AA. 3424BD. 3324DD. 3424BA.	
1.2	The	topographical map number 3424 refers to	
	A B C D	contours and isobars. isobars and contours. longitude and latitude. latitude and longitude.	
1.3	The	types of scales used on the topographical map are:	
	(i) (ii) (iii) (iv)	Ratio Fraction Word Line	
	Cho	pose the correct combination:	
	A B C D	(i) and (ii) (ii) and (iii) (iii) and (iv) (i) and (iv)	
1.4		scale of the orthophoto map is times larger than the scale of the ographical map.	
	A B C D	5 10 20 40	
1.5	The	contour interval of the orthophoto map is metres.	
	A B C D	5 10 20 50	

1.6		ntour lines, trigonometrical stations, spot heights and benchmarks resent	
	A B C D	lines joining places of equal height. places of similar vegetation. altitude (height above sea-level). lines joining places of equal temperature.	
1.7		e road on the topographical map that links Humansdorp with Jeffrey's Bay ne	
	A B C D	R102. R330. N2. N12.	
1.8	The	e exact height of T in block A5 on the topographical map is metres.	
	A B C D	20 200 2 000 20 000	
1.9	The is a	human-made feature found at W in block A7 on the topographical map	
	A B C D	dam wall bridge. railway. waterfall.	
1.10	The	e feature found at 1 on the orthophoto map is a/an	
	A B C D	cemetery. small dam. excavation. orchard.	
1.11		e physical/natural feature found at X in block F4/5 on the topographical p is a	
	A B C D	dam. waterfall. marsh and vlei. river island.	

 (15×1)

[15]

(3)

QUESTION 2: MAP CALCULATIONS

2.1	Calculate the straight-line distance along the N2 between benchmark 209 (A3/4) and the Plettenberg Bay exit point (A1) in kilometres.

2.2.1	The compass direction between spot height 25 in block H6 and trigonometrical station 124 in block H6/7 on the topographical map
2.2.2	The true bearing between spot height 25 in block H6 and trigonometrical station 124 in block H6/7 on the topographical map
	h ONE, compass direction or true bearing, is a more accurate way o
Answ	/er:
Reas	on:
With 3424	the aid of a simple diagram, explain how the map BB HUMANSDORP was named.
3424	

QUESTION 3: APPLICATION AND INTERPRETATION

3.1.1	Which ONE will you choose?
	(1 x 2)
3.1.2	Give a reason for your answer to QUESTION 3.1.1.
	(1 x 3)
block	guish between the Krom River in block G2 and the Kamste River in E6 by indicating which one is perennial/permanent and which one is erennial/periodic.
	(1 x 2
	te the flow direction of the Seekoei River running through Broadlands in D2 and give a reason for your answer.
Direct	on:
Reaso	on:(2 x 2
	ONE piece of evidence from the topographical map to show that nature rvation is a priority in the mapped area.
No riv	rvation is a priority in the mapped area.

Many people visit Jeffrey's Bay during the summer holiday. The huge numbe of visitors may lead to pollution of the ocean. Name ONE source of pollution by the visitors and ONE effect it will have on the ocean environment.
(2 x 2
The Seekoei River can overflow its blanks during heavy rains. Give TWO negative effects that may be experienced in the area adjacent to the river as it flows to the ocean.
(2 x 2)
Imagine you are a tourist information officer. You must compile a tourist brochure for Humansdorp and the surrounding areas. Name ONE important attraction which you will include in the brochure.
(1 x 2)
ON 4: GEOGRAPHIC INFORMATION SYTEMS
Write the acronym GIS in full.
(1 x 1)
Name any ONE component of a GIS.
(4 : 0)
(1 x 2)

4.3	Choose a term from COLUMN	I B that matches a	statement in COLUMN A.
	Write only the letter (A-E) next	to the number (1-4) below.

			COLUMN B
1.	The science of acquiring information about the earth's surface without actually	A s	spatial data
	being in contact with it	Вр	points
2.	•	C li	ines
	location and/or shape can be described in terms of a spatial reference system	D s	spatial objects
3.	Data described in terms of location or grid reference	E r	emote sensing
4.	The type of symbol cartographers use to describe roads, rivers and railways		
1			
2			
-			
3			
4			
			(4 x 1
Spa	tial data can be managed as points, lines ure in block A3 .		(4 x 1
Spa	tial data can be managed as points, lines		(4 x 1
Spa feati	tial data can be managed as points, lines	or po	(4 x 1 blygons. Name ONE line (1 x 2
Spa feati	tial data can be managed as points, lines ure in block A3 . ne ONE attribute of the N2 running fro	or po	(4 x 1 blygons. Name ONE line (1 x 2
Spa feati	tial data can be managed as points, lines ure in block A3 . The ONE attribute of the N2 running frock A10) across the topographic map.	or po	(4 x 1 olygons. Name ONE lin (1 x 2 rest (block A1) to eas
Spa feati	tial data can be managed as points, lines ure in block A3 . ne ONE attribute of the N2 running fro	or po	(4 x 1 olygons. Name ONE lin (1 x 2 rest (block A1) to eas
Spa feati	tial data can be managed as points, lines ure in block A3 . The ONE attribute of the N2 running frock A10) across the topographic map.	or po	(4 x 1 olygons. Name ONE lin (1 x 2 rest (block A1) to eas

ROUGH WORK AND CALCULATIONS