Downloaded from Stanmorephysics.com

## PHOENIX NORTH GEOGRAPHY CLUSTER NOVEMBER EXAMINATION: 2019

#### PAPER 2

GRADE 10 MARKS: 75

**DURATION: 90 MINUTES** 

1. This paper consists of  $\underline{4}$  questions and  $\underline{10}$  pages.

2. The questions in this paper are based on the 1:50 000 topographical map and 1:10 000 orthophoto map of PARYS.

3. Write down your answers in the spaces provided.

4. Write down your name and division below.

NAME:	
GRADE: 10	

#### **Question 1: Multiple Choice Questions**

## Choose the correct answer from various options – write only the letter (A-D) in the block provided.

1.1)	The Earth's curved surface is represented on the topographical map projection.	through the
	Azimuthal Lambert	
	Cylindrical Gauss Conform	
1.2)	Which statement about the orthophoto map is correct?	
В. С.	Has no contour lines Has a smaller scale than topographical map Is 10 times bigger than the topographical map Contour interval is 5 metres	
1.3)	Point K on the topomap indicates a	
В. С.	Windpump Monument Water Tower Cross	
1.4)	Parys is in the province.	
В. С.	Free State Gauteng North West Limpopo	
2   Pag	g e ,	

1.5)	The type of road at point 3 on the orthophoto map is	
	A. National Freeway	
	B. Main Road	
	C. Secondary Road	
	D. Arterial Road	
	Zadina Ishiagan opa saran 2 1193 hari 2 mata 19 mi 55 k	
1.6)	The height of the land at point numbered 11 on the orthophoto map	is m
	A. 1378.72	
	B. 1373.08	
	C. 1380	
	D. 1371.52	
1.7)	Height in block C4 on the topographical map is not shown by	
	A. Bench Mark	
	<ul><li>B. Spot Height</li><li>C. Trig Beacon</li></ul>	
	D. Contours	
•	D. Contours	-mail (2)
1.8)	Points between 13 and 14 on the orthophoto map indicates a	
	A. River	
	B. Forest	
	C. Road	
	D. Racing Track	
.9)	The "diggings" on the orthophoto map is represented by the number	
	A. 7	
	B. 10	
	C. 1	
	D. 15	

•

1 15) The C	
1.15) The towns ofA. Potchefstroom	is 29 km away from the mapped area
B. Sasolberg	
C. Fochville	
D. Dover	
	(15 x 1) [15]
Question 2: Map Calculation	
2.1) Calculate the straight line distance	between trig beacon 706 (H5) and spot height
2.1) Calculate the straight line distance 568 (H1). Give your answer in metres.	between trig beacon 706 (H5) and spot height.
2.1) Calculate the straight line distance 1568 (H1). Give your answer in metres.	
2.1) Calculate the straight line distance 1568 (H1). Give your answer in metres.	
2.1) Calculate the straight line distance 1568 (H1). Give your answer in metres.	
2.1) Calculate the straight line distance 1568 (H1). Give your answer in metres.	
2.1) Calculate the straight line distance 1568 (H1). Give your answer in metres.	
2.1) Calculate the straight line distance 1568 (H1). Give your answer in metres.	
.568 (H1). Give your answer in metres.	
.2) Determine the difference in height 1	between trig beacon 706 (H5) and spot height
1568 (H1). Give your answer in metres.	between trig beacon 706 (H5) and spot height
.2) Determine the difference in height 1	between trig beacon 706 (H5) and spot height
.2) Determine the difference in height 1	between trig beacon 706 (H5) and spot height
.2) Determine the difference in height 1	between trig beacon 706 (H5) and spot height
.2) Determine the difference in height 1	between trig beacon 706 (H5) and spot height
.2) Determine the difference in height 1	between trig beacon 706 (H5) and spot height
.2) Determine the difference in height 1	between trig beacon 706 (H5) and spot height
.2) Determine the difference in height 1	between trig beacon 706 (H5) and spot height
.2) Determine the difference in height 1	between trig beacon 706 (H5) and spot height

2.3) Calculate the magnetic de		
MD for current year:		
Annual change:		
Гotal change:		
MD for 2019:		
		<del></del>
2.4) Determine the TRUE BEA	ARING of trig beacon 706 (H5) from spot height	•
1568 (H1)		(3)
2.5) Calculate the straight line	distance of Allenby Street on the orthophoto map.	(3)
	distance of Allenby Street on the orthophoto map.	(3)

**6 |** Page

Question 3: Application and Interpretation		
3.1) The Northern part of the receives seasonal (poor) rainfall. Quote to evidence from block A5 to substantiate this statement.	hree piece	s of (6)
3.2) Identify two types of recreational facilities found in G8.		(2
3.3) Refer to the Vaal River as it passes West End (H7). State one adv disadvantage as this river passes West End.	antage and (2 x 2)	
3.3) Refer to the Vaal River as it passes West End (H7). State one adv disadvantage as this river passes West End.  Advantage:		
disadvantage as this river passes West End.		
disadvantage as this river passes West End.		one (4)
disadvantage as this river passes West End.  Advantage:		
disadvantage as this river passes West End.  Advantage:		

3.4.1) What type of movement was Sipho involved in?	(1
	(1
3.4.2) Describe the impact of the type of movement mentioned in Q3.	4.1 above on :
a) Edenvale:	
	(2)
b) The Town:	
	(2)
3.4.3) Outline two steps that the government can take in order to redupeople leaving areas like Edenvale.	ce the number of (2 x 2) (4)
3.5) What is the significance of the row of trees on the Rietpoort farm	in block F6. (2)
3.5) What is the significance of the row of trees on the Rietpoort farm  3.6) State one advantage that windmills have over boreholes.	in block F6. (2)

# Downloaded from Stanmorephysics.com **Question 4: Geographical Information System - GIS** 4.1) List two advantages that GIS has over paper maps. (2) 4.2) Differentiate between hardware and software. (2) Hardware: Software: 4.3) Study the sketch showing spatial objects . S. Schoel 4.3.1) Define the term spatial object. (2)

LO   Page	
GRAND T	TOTAL: [75]
	[15]
4.6) Name one remote sensing device that is used to capture data.	(1)
4.5) State two disadvantages of remote sensing.	(2)
4.4) How many types of lines are there in the sketch?	(1)
4.3.3) Describe a line.	(2)
Polygon:	
Point:	
4.3.2) Identify the various types of spatial objects in the sketch.  Line:	(3)

Making Meno

Downloaded from Stanmbrephysics.com

## PHOENIX NORTH GEOGRAPHY CLUSTER NOVEMBER EXAMINATION: 2019

#### PAPER 2

GRADE 10 MARKS: 75

**DURATION: 90 MINUTES** 

1. This paper consists of  $\underline{4}$  questions and  $\underline{10}$  pages.

2. The questions in this paper are based on the 1:50 000 topographical map and 1:10 000 orthophoto map of PARYS.

3. Write down your answers in the spaces provided.

4. Write down your name and division below.

NAME:	1 War king	Menio
GRADE: 10		AND THE PROPERTY OF THE PROPER



#### Downloaded from Stanmorephysics.com Question 1: Multiple Choice Questions

Choose the correct answer from various options – write only the letter (A-D) in the block provided.

1.1)	The Earth's curved surface is represented on the topographical ma projection.	p through the
A	A	
	Azimuthal	
	Lambert Cylin dei a 1	<u></u>
	Cylindrical Gauss Course	D
D.	Gauss Conform	
1.2)	Which statement about the orthophoto map is correct?	
A.	Has no contour lines	
B.	Has a smaller scale than topographical map	
C.	Is 10 times bigger than the topographical map	
D.	Contour interval is 5 metres	$\square$
1.2)		
1.3)	Point K on the topomap indicates a	
A.	Windpump	
B.	Monument	
C.	Water Tower	
D.	Cross	A
1.4)	Parys is in the province.	
Δ	Free State	
	Gauteng	
	North West	
	Limpopo	A
2.		

2 | Page

Control for the first the first control for the control for th

Dov	wnloaded from Stanmorephysics.com	
1.5)	The type of road at point 3 on the orthophoto map is	
	A. National Freeway	
	B. Main Road	
	C. Secondary Road	
•	D. Arterial Road	[ ]
1.6)	The height of the land at point numbered 11 on the orthophoto n	nap is m
	A. 1378.72	
	B. 1373.08	
	C. 1380	
	D. 1371.52	C
1.7)	Height in block C4 on the topographical map is not shown by	
	A. Bench Mark	
	B. Spot Height	
	C. Trig Beacon	
	D. Contours	
1.8)	Points between 13 and 14 on the orthophoto map indicates a	
	A. River	
	B. Forest	
	C. Road	
	D. Racing Track	A
1.9)	The "diggings" on the orthophoto map is represented by the num	ber
	A. 7	
	B. 10	
	C. 1	0
	D. 15	$[\mathcal{B}]$



Dov 1.10	Inloaded from Stanmorephysics.com  The index of an atlas is located at the of an atlas	
	A. Front	
	B. Middle	
	C. Back	C
	D. Centre	
1.11)	The direction of point R from point S on the topographical map is	
	A. NE	
	B. SW	
	C. SSW	
	D. ESE	A
1.12)	Very few buildings are evident in block J3 because of the presence of	f
	A. Cultivated Land	
	B. Steep Slope	
	C. A Marsh	C
	D. A Road	
4.		
1.13)	There is no crop farming taking place in block C, because	
	A. There is an absence of dams	
	B. The land is rugged	
	C. There is an absence of perennial streams	R
	D. There is an absence of a road	[D]
1.14)	The Vaal River is a/an river	
	A. Non-perennial	
	B. Perennial	
	C. Episodic	2
•	D. Exotic	17



Downloaded	from	Stanmorephysics.com

1.15) The towns of \_\_\_\_\_\_ is 29 km away from the mapped area

- A. Potchefstroom
- B. Sasolberg
- C. Fochville
- D. Dover



 $(15 \times 1) [15]$ 

### Question 2: Map Calculation

2.1) Calculate the straight line distance between trig beacon 706 (H5) and spot height 1568 (H1). Give your answer in metres.

15,8 × 0,5 / 7,9 km (× 1000) 7900 M

2.2) Determine the difference in height between trig beacon 706 (H5) and spot height 1568 (H1).

1509 m - 1390.1 m 199,9 M

1568 - 1390,1

= 177,9 m



2.3) Calcula	ate the magnetic	declination for 2019.	. Use the following hea	dings.	(5)
			8		1.3

MD for current year:

Annual change:

Total change: MD for 2019:

20/9-20/1 = 8 years / 2! W / 8 x 2 = 16' / 18°52' + 16' 18° 68' / = 19°08' WJTN /

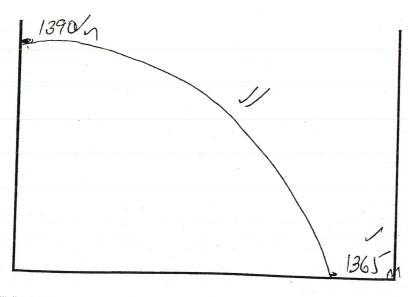
### 2.4) Determine the TRUE BEARING of trig beacon 706 (H5) from spot height

1568 (H1) 90°/ (88°-92°). (3)

2.5) Calculate the straight line distance of Allenby Street on the orthophoto map. (3)

12 x 0 1 km (accept 1,1 - 1,3 km) 1200m

2.6) Construct a rough cross section of the slope labelled 8 on the orthophoto map. (4)





### **Question 3: Application and Interpretation**

3.1) The Northern part of the receives seasonal (poor) rainfall. Quote three piece	s of
evidence from block A5 to substantiate this statement.	(6)
Resuree of: a day	(0)
Klowee of: a day  a reservoir	
- windfull	
non-perennial shears	
3.2) Identify two types of recreational facilities found in G8.	(2)
Gravan Jan 1 Go.	
Gelf Course	
3.3) Refer to the Vaal River as it passes West End (H7). State one advantage and	one
disadvantage as this river passes West End. (2 x 2)	(4)
Advantage: Cooling effect on leverature on Used for Levera	haal
Disadvantage: Waterbone disease could spread	
Materbone disease could spread / Threat of Hooding	



3.4) Sipho leaves his farm in Edenvale (J1) and moves towards the industrial near the town.	l area U
3.4.1) What type of movement was Sipho involved in?	(1)
- Leval - Urban Migration	
3.4.2) Describe the impact of the type of movement mentioned in Q3.4.1 about	ove on:
a) Edenvale: Répalation decreases Jewicus such as schools - will be undernetil, je d'Icheld beaded households + for	+ Hoyutal må
b) The Town:	(2)
3.4.3) Outline two steps that the government can take in order to reduce the me people leaving areas like Edenvale.  (2 x 2)  And Concluding / In Angrow Mashwelitts / mads  how people and he accelerated	
Found Reform news he accelerated  3.5) What is the significance of the row of trees on the Rietpoort farm in block  Included as Windlewarth	x F6. (2)
8.6) State one advantage that windmills have over boreholes.  Windmills are chapper because they do not use about its	(2)



Oraction 1.	Coognamhical	T C	C	CTC
Question 4.	Geographical	information	System -	· <u>019</u>

4.1) List two advantages that GIS has over paper maps.  GIS can cope with love amounts of data/ Con card large over  GIS is faste / More Africant / Maying loss trape & many	(2 201/
4.2) Differentiate between hardware and software.	(2
Hardware: Refers to the physical equipment equipment equipment	
Software: Refer to a compute propound	

4.3) Study the sketch showing spatial objects

4.3.1) Define the term spatial object.

There are objects that have a location,

Sheye and symbol.



4.3.2) Identify the various types of spatial objects in the sketch.  Line:	(3)
landingstrip frood	
Point: Chool.	
Polygon:	
golf court	
4.3.3) Describe a line.	(2)
94	(2)
Constitution a Start	
and and point	
and and form	
/	(1)
4.4) How many types of lines are there in the sketch?	(1)
4.4) How many types of lines are there in the sketch?  2  4.5) State two disadvantages of remote sensing.	(2)
4.4) How many types of lines are there in the sketch?  2  5.5) State two disadvantages of remote sensing.	(2)
4.4) How many types of lines are there in the sketch?  2  4.5) State two disadvantages of remote sensing.	(2)
4.4) How many types of lines are there in the sketch?  2  6.5) State two disadvantages of remote sensing.  Guipment is expensial / lesolution is planta interpretation is difficult.  Measurements may not be accurate	(2)
4.4) How many types of lines are there in the sketch?  2  4.5) State two disadvantages of remote sensing.	(2)

GRAND TOTAL: [75]



4.5.5) Name the instrum that they are not familian	r with. GPS	Safellifes		(1
4.5.6) How will the proc	ess of data security	assist the police in enc	11. 41.	
information is protected?	)	geziet me bonce m eng	aring that their	(1)
		lane'r	wall,	
		00185	wall words !	— Г15
		pression	bvas	[15]
		1C	odes:	
			GRAND TOTAL: [	[75]
		•		

