KZN - DEPARTMENT OF EDUCATION

GREENBURY SECONDARY SCHOOL

JUNE EXAMINATION 2017

GEOGRAPHY P2

pp10

GRADE: EXAMINER: MODERATOR:	11 D. RAMASAMI R. RANGANATHAN	TIME:	12/06/17 1.5 HOURS : 75	
NAME:				
GRADE/ DIV:				
EDUCATOR				•

QUESTION	CONTENT	MARKS
ONE	Multiple choice questions	15
TWO	Map calculations	20
THREE	Map and photo interpretation	25
FOUR	Geographical Information System	15

MARKS:	
	ACCAMINE MACAGINE
	75

INSTRUCTIONS AND INFORMATION

RESOURCE MATERIAL

- An extract from topographical map 2729BD VOLKSRUST.
- 2. Orthophoto map 2729 BD 13 VOLKSRUST
- 3. **NOTE:** The resource material must be collected by schools for their own use.

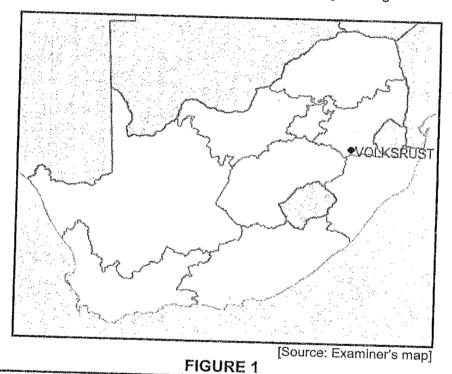
INSTRUCTIONS AND INFORMATION

- 1. Write your name in fall. and Educator's initiats in the spaces on the cover page.
- 2. Answer ALL the questions in the spaces provided in this question paper.
- 3. You are provided with a 1:50 000 topographical map (2729BD VOLKSRUST) and an orthophoto map (2729 BD 13 VOLKSRUST) 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 may use the blank page at the end of this question paper for all rough work and calculations. Do NOT detach this page from the question paper.
- 6. Show ALL calculations and formulae, where applicable. Marks will be allocated for these.
- Indicate the unit of measurement in the final answer of calculations.
- 8 You may use a non-programmable calculator.
- The area demarcated in RED on the topographical map represents the area covered by the orthophoto map.
- 10. The following English terms and their Afrikaans translations are shown on the topographical map:

ENGLISH AFRIKAANS Aerodrome Vlieaveld Diggings **Uitgrawings Furrow** Voor Golf Course Gholfbaan Rifle Range Skietbaan River Rivier Sawmills Saagmeule Sewerage Works Rioolwerke Silos Graansulers

GENERAL INFORMATION ON VOLKSRUST

Volksrust is a town in Mpumalanga on the border of KwaZulu-Natal. It is located 240 km southeast of Johannesburg. The town has important beef, dairy, maize, sorghum, wool and sunflower seed industries. Volksrust has an average annual rainfall of 648 mm, with the lowest rainfall (1 mm) in July and the highest rainfall (117 mm) in January. Most of the rain falls in the summer. The average midday temperatures for Volksrust range from 15,9 °C in June to 24,3 °C in January. June is the coldest period when the mercury can drop to an average of 0,5 °C during the night.



PTO: PAGE 4

QUESTION ONE

MULTIPLE CHOICE QUESTIONS

The following questions are based on the 1:50 000 topographical map, as well as the orthophoto map. Various options are provided as possible answers to the following questions. Choose the answer and circle only the letter (A-D) of the correct answer.

1.1.	The contour interval of the ORTHOPHOTO MAP map is	
	A) 5M B) 10M C) 20M D) 15M	
1.2.	The map projection used on the topographical map is	
	A) Gauss Conform ProjectionB) Lamberts ProjectionC) MercatorD) Universal Transverse.	phony of the control
1.3.	The scale of the TOPOGRAPHIC map means that 1 cm on the map rep	resents
	A) 0,1 Km B) 10 Km C) 0,5 Km D) 50 Km	Management of the state of the
1.4.	The method used to show height at X is a/an	
	A) Contour B) Spot height C) Trignometrical station D) Bbenchmark	N'opphisible standed amount state the Apple
1.5.	Slope at Y on the topographic map is	
	A) Steep B) Concave C) Convex D) Vertical	

1.6.	The transport route used to exit the town in a northerly direction is a/an
	A) main road B) arterial route C) other road D) national road
1.7.	Feature 1 on the orthophoto map is a/an
	A) hill B) mesa C) plateau D) basin
1.8.	The scale of the topographic map is than the scale of the orthophoto map
	A) 5 times smaller B) 5 times larger C) 50 times smaller D) 10 times larger
1.9.	The orthophoto map is an example of a/anaerial photograph.
	A) Vertical C) Oblique C) High oblique D) Low oblique
1.10.	The magnetic declination in 2017 will be
	A) Smaller B) Bigger C) Same D) None of the above .
1.11.	The magnetic bearing compared to the true bearing will bethan the given magnetic declination
	A) Greater B) Smaller C) Same D) None of the above
1.12.	The direction of Y from P is
	A) SW B) NE C) NW D) SE

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1,13.	The	main p	imary	activit	y at P i	s				P		ř.			
	A) B) C) D)	Farmi Fores Mining Orcha	try g										u — u arus an produ	· · · · · · · · · · · · · · · · · · ·	
1.14.	The	latitudir	nal pos	sition in	n the re	ferenc	e 272	9 is							
	A) B) C) D)	29° S 29° E 27° S 27° E	E 8				,						, manin agar ann actor o se		
1.15.	Voll	ksrust i	s found	d in											
	B) C)	Easte Gaute Weste Mpum	ng ern Cap	oe										·	
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2.1.	Calcul	ate the	distan	ce in r	netres,	betwe	en Q	(E7) a	nd R	(D9)	on th	e topog	raphi	c map.	-wayne gas.
-							ggaringkang atau atau atau atau atau atau atau ata								(3)
2.2.1.	Calcul	ate the	avera	ge gra	dient b	etweeı	n M (16	6) and	trig t	eaco	n 24	1 in(G1	0).		
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2.2.2.	Interpret the gradient calculated in 2.2.1.	
		(2)
2.3.	Calculate the true bearing of Q (E7) from R (D9).	(3)
2.4.	Calculate the magnetic bearing of the points in question 2.3 for 2010.	
		(2)
2.5.	Calculate the vertical exaggeration of a cross section drawn from the topographic a vertical scale of 0,5 cm represents 50m.	map with
2.6.	Give one importance of calculating vertical exaggeration.	(4)
		(2) [20]
	QUESTION 3	
	MAP AND PHOTO INTERPRETATION	
3.1.1.	Quote two pieces of evidence from the topographic map which suggests that Volksrust is not a good area for crop cultivation.	
	a)	
	b)	(4)

b)	a)	
2. Name two uses of the Mahamane dam in A5 and B5. 3. Name the following land uses/ feature 9 7 0 L U 1. Identify the type of slope at N 2. State the nearest town you will reach using rail transport in an easterly direction.	b))
3. Name the following land uses/ feature 9		
3. Name the following land uses/ feature 9 7 0 L U 1. Identify the type of slope at N 2. State the nearest town you will reach using rail transport in an easterly direction.	2. N	
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.2. State the nearest town you will reach using rail transport in an easterly direction.		
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.3. Give a possible reason why people are living at T	.2. S	State the nearest town you will reach using rail transport in an easterly direction.
.3. Give a possible reason why people are living at T	-	
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	.3. C	Give a possible reason why people are living at T

QUESTION 4

GEOGRAPHICAL INFORMATION SYSTEM

24-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
State two uses of GIS for management of natural disasters.	
a)	
efine the following and give an example of each:	
Spatial resolution	
Active remote sensing	
Raster Data	
ector Data	
ame the device used in remote sensing.	
	W

TOTAL = 75

GOOD LUCK

ROUGH WORK

GREENBURY SECONDARY SCHOOL



DEPARTMENT OF HSS H.O.D. MR D RAMASAM

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21. Map Distance =	to the definition of the material of the second of the sec	(6,8-7,2)	likketti. Missa and assid – a semakkan aksidas oʻz oʻz azaraqalikan ay-zakilga, iz vaqqas oʻz oʻz oʻz	suidinements na <mark>naineme</mark> neksen 229-aurosans sin errona osa - egy a
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Interpretation based on answer for 221)

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2.3- 180° + 60° = 240°
                               ( 238" - 242")
2.4. 240° + 20° 3'71 V
     260" 37
                               (258" 37' - 262" 37')
                                 vertical Scale
      Vertical Exaggeration
                                 Horizontal Scale
0,5 cm rep 50 m.
25.
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                                 Lem rep 100 m
                                  1:50 000
                                   1: 50 000
                                   50 000
                                   10 000
                                 5 times
2.6 To identify special features and have a clear understanding of the real feature
34. 0) Mountainous
    b) Many non perennial rivers.
321. Beef, dairy, maise, sorghum, wool, sunflower seed.
322. Recreation
      Water /
 323. 9 - Power line /
       7 - Golf course /
       0 - forme Railway Station | Siding
        L - Residential area | Built up area
        4 - Row of trees
 334 Steep /
 332. Wakkerstroom
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3.3 g. People work in the mills | forests =

	44. Durable, Stores a lot of information
	4:2 a) Identify the nature a extent of damage.
	b) Identify alternate routes to get to victims
	43. · Clarty in terms of size and Shape =
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