KZN - DEPARTMENT OF EDUCATION GREENBURY SECONDARY SCHOOL

FINAL EXAMINATION 2015

GEOGRAPHY P2

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EXAMINER:

10

D. RAMASAMI

DATE:

04/11/15

TIME:

1.5 HOURS

MODERATOR: R. RANGANATHAN

MARKS: 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

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75

INSTRUCTIONS AND INFORMATION

- 1. This paper consists of **NINE** pages inclusive of the cover page.
- 2. Write your name and your educator's name in the spaces provided on the question paper.
- 3. Answer ALL the questions in the spaces provided in this question paper. Show all Calculations where required.
- 4. You should receive a 1:50 000 topographical map 2930CA MERRIVALE and an orthophoto map 2930 CA 5 MERRIVALE of a part of the mapped area.
- 5. The topographical map and the orthophoto map must be handed to the invigilator at the end of the examination session.
- 6. You may use the blank page at the back of this question paper for all rough work and calculations.
- 7. A non-programmable calculator may be used.
- 8. The orthophoto map covers blocks 10, 11, 12 A and B of the topographic map.
- 9. The following English terms and/or their Afrikaans translations may appear on the topographical map:

ENGLISH	AFRIKAANS
Caravan park	Karavaanpark
Cemetery	Begraafplaas
Copper mine	Kopermyn
Diggings	Uitgrawings
Disused mine	Ongebruikte myn
Drive-in theatre	Inryteater
Fish farm	Visplaas
Landing strip	Landingstrook
Refuse dump	Afvalstortingsterrein
Rifle range	Skietbaan
River	Rivier
Sewage disposal works	Rioolafvalwerke
Shaft	Skag
Slimes dam	Slykdam

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 topographic map map is
		A) 5M B) 10M C) 20M D) 15M
ì	1.2.	The map projection used on the orthophoto map map is
,		A) Gauss Conform Projection B) Lamberts Projection C) Mercator D) Universal Transverse.
	1.3.	The scale of the topographic map means that 1 cm on the map represents
		A) 0,1 Km B) 10 Km C) 0,5 Km D) 50 Km
	1.4.	Land use D is of land use A
h		A) SE B) NW C) E D) N
1	.5.	The road linking Mooirivier and Pietermaritzburg in the NE corner of the topographic map is a/an road
		A) arterial B) main C) national D) minor

1.6.	The method used to show height in block E1 is a	
	A) Bench markB) Spot heightC) Trignometrical stationD) None of the above	
1.7.	The slope in block 10E is	
	A) GentleB) SteepC) VerticalD) Terraced	
1.8.	The feature numbered 3 on the orthophoto map is a/an	
	A) Soccer field B) Sewage work C) Dam D) Marsh	
1.9.	The orthophoto map is an example of a/an	
	A) VerticalC) ObliqueC) High obliqueD) Low oblique	
1.10.	The scale of the topographic map isthan the orthophoto map.	
	A) SmallerB) largerC) Same asD) None of the above .	
1.11.	The scales that is reflected on the topographic map is a ratio scale and	***
	A) Ratio scaleB) Word scaleC) Linear scaleD) All of the above	
1.12.	The distance from Merrivale to Mooirivier in the north is	
	A) 58 km B) 45 km C) I do not have a string to measure D) 14 km	

1.13	. The	main primary activity in F 12 is		
	A) B) C) D)	Farming Forestry Mining Orchards	, no processor and a second	-diagraph and the state of
1.14	. The l	latitudinal position in the reference 2930 is		
	A) B) C) D)	29° S 29° E 30° S 30° E		
1.15	5. Merr	rivale is found in		
	B) C)	KZN Limpopo Western Cape Eastern cape		
		. (1:	5 x 1)	[15]
2.1.		QUESTION TWO CALCULATIONS ate the distance in metres between spot height 1674 (F2) and sp	oot heigh	t 1491(F4
2.1.		CALCULATIONS	oot heigh	t 1491(F4 (3)
2.1.	Calcula	CALCULATIONS	oot heigh	_(3)
	Calcula	calculations ate the distance in metres between spot height 1674 (F2) and sp		
2.2.	State th	cate the distance in metres between spot height 1674 (F2) and spot height of the highest point in E 10. The methods used to show height in E10 and E 11		(3) (1)
2.2.	State th	cate the distance in metres between spot height 1674 (F2) and spot hei		(3) (1)
2.2.	State the a)b)	ate the distance in metres between spot height 1674 (F2) and spot height of the highest point in E 10. The methods used to show height in E10 and E 11		(3) (1)
2.2.	State th a) b) c)	ate the distance in metres between spot height 1674 (F2) and spot height of the highest point in E 10. The methods used to show height in E10 and E 11		(3)

(_)

(_)

2.5.	Calculate the true bearing of spot height 1491 (F4) from spot height 1079 (D5).	
		(3)
2.6.	Will the magnetic bearing of the mapped region be greater than or smaller than bearing for 2015?	(5)
		_ (2)
2.7.	State the grid reference of spot height 1079 in D5. Marks will be allocated for meseconds and direction.	inutes,
	latitude	(0)
	longitude	(6) [20]
	QUESTION 3	[=""]
	MAP AND PHOTO INTERPRETATION	
3.1.1.	Quote Evidence from the topographic map to show the authorities in this area i Steps to protect the environment.	s taking
		(2)
3.2.	Refer to the topographic map and orthophoto map and answer the questi	ons that
3.2.1.	State two uses of the Midmar Dam to the residents of Merrivale.	
	b)	(2)
3.2.2.	. Name the famous sporting event that the Midmar dam is noted for.	(2)
3.2.3	. Name the factor that favoured the location of the landing strip in D 10	. (2)

	3.3.1	. Identify the land use labeled 8 on the orthophoto map.	. (
	3.3.2	. State the type of road you would use if you want to travel South from Merriva	le. . (2
	3.3.3	. Refer to the topographic map and identify the following land uses/ features A	
		F 12	(4
-)	3.4.1.	Study the atlas index below and answer the questions Lobatse 25°.11 S 25°.40 E 68	
	3.4.	1.1. State the following Latitude:	
		Page number:	
		Longitude:	(3
	3.4.2.	Describe and give an example of the following types of maps: Political map	
)		Electronic map	- - _ (4)
. *	3.5.	State the purpose of the firebreak in B5 and B6	
			(2) [25]

QUESTION 4

GEOGRAPHICAL INFORMATION SYSTEM

Define the concept of GIS	(2)
Give two problems experienced with paper map	
a)	
b)	
	(4)
Give an example of the following types of data fr	rom F12
Line:	(2)
Point::	
Explain how satellite images can be used in disa	aster management. (2 answers)
	(4)
Explain the meaning of active remote sensing	
	(1)

TOTAL = 75 GOOD LUCK

ROUGH WORK

GREENBURY SECONDARY SCHOOL

DEPARTMENT OF HSS

H.O.D. HER D RAMABAM

Damagama

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GEOG P2 MEMO - NOV 2015

1.1.	C	1.9.	Α
1.2.	Α	1.10.	Α
1.3.	С	1.11.	C
1.4.	Α	1.12.	В
1.5.	С	1.13.	В
1.6.	C	1.14.	Α
1.7.	В	1.15.	Α
1.8.	C.		

- 2.1. $7,1\sqrt{2} = 3,55$ KM $\sqrt{3450 3650}$
- 2.2. 1382,0m OR 1382m
- 2.3. contour

Spot height

Trig beacon / trignometrical station

2.4.
$$1388m - 1382m = 6m$$

2.5.
$$180^{\circ}\sqrt{+13^{\circ}\sqrt{=193^{\circ}\sqrt{(10^{\circ}-16^{\circ})}}}$$

- 2.6. greater
- 2.7. lat $-29^{\circ} 33' \sqrt{24''} \sqrt{5} \sqrt{(20'' 29'')}$ Long $-30^{\circ} 07' \sqrt{15''} \sqrt{5} \sqrt{(11, -19'')}$
- 3.1.1. Midmar Publie Resort Nature Reserve
- 3.2.1. water sports

 Water for domestic and industrial use, etc
- 3.2.2. Midmar mile
- 3.2.3. Flat land/transport
- 3.3.1. railway line
- 3.3.2. arterial/main road
- 3.3.3. A River F12 – forestry
- 3.4.1. lat 25°.11 S

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 Long 25°.40 E

- 3.4.2. Political map shows boundries eg a map showing the provinces of SA Electronic map uses an electronic device to access these maps.
- 3.4.3. Prevents the spread of fires in a forest.
- 4.1. GIS is the use of computer technology to study geographical information
- 4.2. a) gets damaged easilyb) information is cluttered
- 4.3. line contour/ boundry/ animal trackPoint lookout tower/ spot height
- 4.4. Assess the extent of the damageCheck for access points to disaster area
- 4.5. This is where a signal is sent to earth and the reflection of these signals creates an image.