KZN DEPARTMENT OF EDUCATION GREENBURY SECONDARY SCHOOL MARCH CONTROLLED TEST – 2015 GEOGRAPHY

EXAMINER: S.SINGH

MODERATOR: D. RAMASAMI

DATE: 24/03/2015

GRADE: 11

MARKS: 100

DURATION: 1.5 HOURS

NAME:	GRADE/DIV:
A T C L C V A best E	UNAUL/DIV

INSTRUCTIONS:

- 1. This paper consists of 5 pages which has 2 sections: Section A (Theory) and Section B (Mapwork).
- 2. Answer all questions.
- 3. Write neatly and legibly.
- 4. There is a separate addendum consisting of 3 pages to this paper which you need to make reference to when answering questions.

SECTION A

QUESTION 1

1.1 Give the correct term for the statements below.

1.1.1 Lack of rainfall over a prolonged period of time.	
1.1.2 Warm dry winds that blow across Central Europe.	
1.1.3 Equal length of day and night.	
1.1.4 Climatic region of Cape Town.	
1.1.5 Heated air travelling upwards.	
1.1.6 Loss of healthy, fertile soils in low rainfall regions.	
1.1.7 Midday sun directly overhead at one of the tropics.	
1.1.8 Movement of the earth around the sun.	
1.1.9 Lines on a map joining places of equal rainfall.	
1.1.1.0 Force exerted on the earth's surface by air due to gravity.	(10)
	•

QUESTION 2

2.1 Study figure 1 in the addendum and answer the following questions.	
2.1.1 What is the name of the line represented by the letter X?	1
2.1.2 Letter A represents the pressure gradient force. Give a reason to support	
this statement.	2
2.13 Which letter represents the Coriolis force? Give a reason for your answer.	2
2.1.4 Name the resultant wind labelled C.	1
2.1.5 Briefly describe how this wind (Answer to 2.1.4) is formed.	4
	(10

2.2 Refer to figure 2 in the addendum and answer the questions.	
2.2.1 Supply the correct letter from the diagram for the following	
2.2.1.1 Polar Cell	.1
2.2.1.2 Ferrel Cell	1
2.2.1.3 Hadley Cell	1
2.2.1.4 Equatorial low pressure	1
2.2.1.5 Subtropical high pressure	1
2.2.1.6 Polar high pressure	1
	(6)
	(-7
QUESTION 3	
3.1 Study the diagram figure 3 in the addendum illustrating a monsoon and answ the questions.	ver
3.1.1 Identify the type of monsoon shown in the diagram. Give a reason to supp	ort
your answer.	4
3.1.2 Briefly explain the formation of a winter monsoon (4 points).	8
3.1.3 Give the significance of the summer monsoons to the people of India.	
(2 Answers).	4
QUESTION 4	
4.1 Study the synoptic weather map figure 4 in the addendum and answer the questions.	
4.1.1 State the season indicated on the map. Give a reason for your answer.	3
4.1.2 What is the pressure reading at X.	1
4.1.3 Identify the following:	
4.1.3.1 Pressure cell B	
4.1.3.2 Pressure cell C	
4.1.3.3 Line labelled E	3
4.1.4 If you were a weather forecaster, how would you describe the weather beir	
experienced at Port Elizabeth.	(5 x 2) (10)
4.1.5 State 2 weather conditions that Cape town will experience as a result of from	nt
labelled D.	4

()

(_)

QUESTION 5	
5.1 Answer the following questions on El Nino and La Nina	
5.1.1 Define the following terms	
5.1.1.1 El Nino	2
5.1.1.2 La Nina	2
5.1.2 During which season does El Nino affect South Africa?	2
5.1.3 Discuss the economic effects of La Nina on the lives of fishermen in Peru?	
(2 Answers)	4
	(10)

TOTAL SECTION A = 75 MARKS

SECTION B – MAPWORK QUESTION 6

(_)

6.1 Refer to the topographic map extract of Steynsburg figure 5 on page 3 in the	
addendum and answer the questions.	
6.1.1 Name the type of scale that appears on the map.	1
6.1.2 State 2 ways how height is shown on the map in block C4.	2
6.1.3 Identify the features on the map labelled:	
6.1.3.1 A (A2)	1
6.1.3.2 B (C2)	1
6.1.4 Provide evidence from the map that indicates that the terrain on the eastern	
side of the map is steeper than the western side.	2
6.1.5 Of what significance is the Sewefontein dam to the residents of Steynsburg.	4
6.2 Study the sketches showing the position of a camera taking aerial photographs. in figure 6 on page 2 in the addendum.	
6.2.1 Identify the type of aerial photograph being taken at A and at B.	2
6.2.2 Explain the difference between the type of photograph at A and B.	4
6.3 Answer the following questions on GIS	
6.3.1 Explain your understanding of GIS.	2
6.3.2 Name any 2 components of GIS.	2
6.3.3 Explain 2 ways how GIS can be useful to climatology.	4
	(25)

GRAND TOTAL 100

PAGE 5 OF 5

()

GEOGRAPHY ADDENDUM

 $(\overline{})$

()

GRADE 11 MARCH 2015

THIS ADDENDUM CONSISTS OF 3 PAGES

FIGURE 1

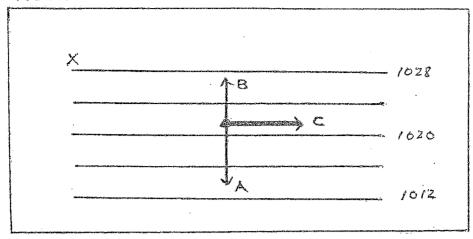


FIGURE 2

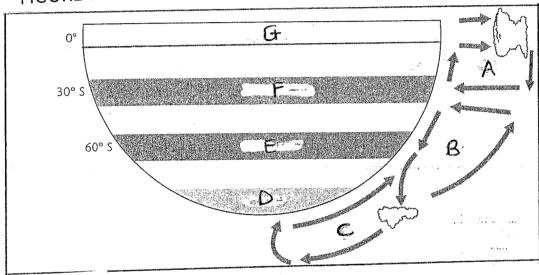


FIGURE 3



PAGE 1 OF 3

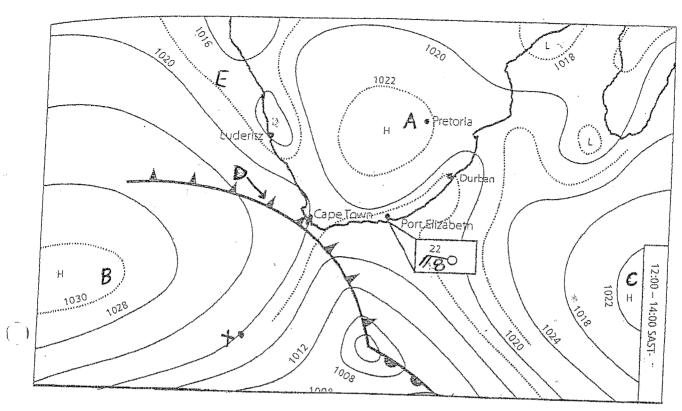
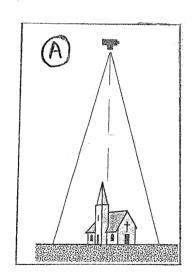
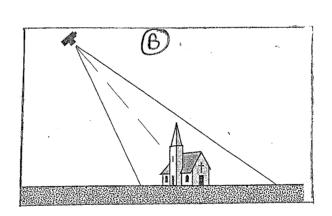


FIGURE 5 - P3

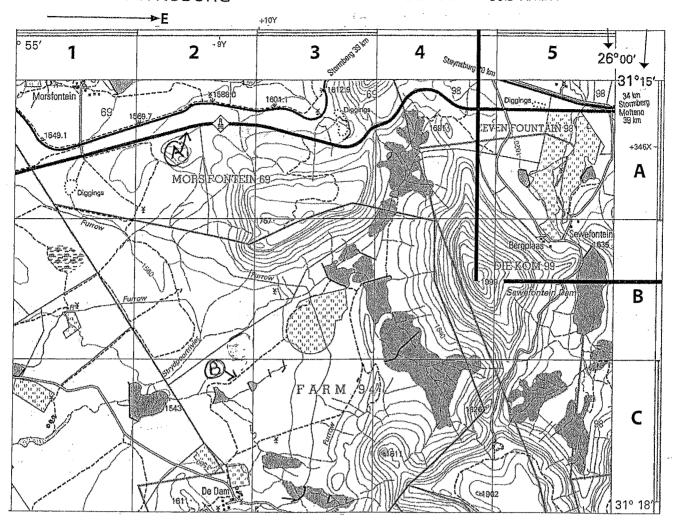
FIGURE 6





3125BD STEYNSBURG

1:50 000 SOUTH AFRICA SUID-AFRIKA



REFERENCE

VERKLARING

International Boundary and Beacon	WT OR OF CONTROL OF CO	Main Roa Secondar Other Roa Track and Railway; Other Rai Embankm Power Lin Built-up A Buildings Post Offic Place of V
-----------------------------------	--	--

National Freeway; National Route		
Arterial Route		
Main Road		-
Secondary Road; Bench Mark		
Other Road; Bridge		
Track and Hiking Trail	her one are age and the one and a	n m 🐃 🖦
Railway; Station or Siding		
Other Railway; Tunnel	territories par	Manusco
Embankment; Cutting		<u> </u>
Power Line		
Built-up Area (High, Low Density)		
Buildings; Ruin	The state of the s	لتتا
Post Office; Police Station; Store	***	·W
Place of Worship; School; Hotel		H
Fence; Wall		· (1
Windpump; Monument	* 3	
Communication Tower	* **	•
Mine Dump; Excavation	WHIL ATT	TO.
Trigonometrical Station; Marine Beacon	Sank City	S
Lighthouse and Marine Light	۸ ۱۹	•
	, X	
Cemetery; Grave	<u>t't't'</u>	•

GREENBURY SECONDARY SCHOOL



DEPARTMENT OF HSS
H.O.D. MR D RAMASAM
TZ) OMO ODODO

31.1. Summer Monsoon - Wind blaning from	5 bnd (LD).	3.12: Land is cool = MP. Octon is worm = LP	winds blace from land of	2,13 Brings rainfall - welling by formers.	course fleading - destruction	Question 4	4.1. Winter - HP on condinert / Cald front on		41.2. 1020 mb	. South Attento High	4-13.2, South Indian Hah	4.1.33. Sub- isabar	v -temp - 22°	DEW point temp + 8?	Claid out Holad skip	Wind speed - 20 knots	Wind direction of NW med many through		Heavy rainfalled to the total	Increase in wind speed	Charge in wind direction.	-					
Grade 11 - Gaog	March sol5	Guestion I	1.1.2. Ehr Winds	- Tables		1.1.6. Desertification	The many of the second squares and second se	And the second s	1	1.110. Atmospheric Pressure CALLIFE	100 A	alextion 2	2.1.1. Isobar	2.1.2. Movement from HP to LP at 90° to isobais	2.13. B - acts at 90° to path of wind.		2.1.4. Geostraphic Wind//Flow	1.7	When Raf and of any balanced, wind	blaws parallel of the isolations = GM			2.2.1.2 B	2,2,1.3 A	22.14 G	2.2.15 F	2.2.1.6 D

than normal sea surface temp.	temp results in rich water. More	local control for fishermon. Mark	scule w lines , spot height mal route	6.1.3.2. Track and Hiking Trigit 6.1.4. Contour lines art closer tegethe at E than at W. 6.15. Water for cloneratic were, farming, Acceptation etc.	6.2.1. A - Vertical alexal phosp (High ILLL) 6.2.2. A - taken at 90° / directly from about B - comerci is filted at an ongle.	6.31. System used for capturing, analyzing and storing graphic data waing a computer. 6.3.2. Hardware, Software Data, Weer 6.3.3. Can thack path of cyclones, Easier definition places not reachable by foot. Can allycited.