KZN DEPARTMENT OF EDUCATION **GREENBURY SECONDARY SCHOOL** FIRST QUARTERLY TEST - 2016 **GEOGRAPHY GRADE 10**

EXAMINER

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DATE : 10/03/16

MODERATOR

: D. RAMASAMI

DURATION: 1 HOUR

MAX MARKS: 100

INSTRUCTIONS

- 1. This paper consists of 2 Sections, A and B and 4 Questions.
- 2. Answer ALL questions.
- 3. Rule off after each question.
- 4. Number questions as per question paper.

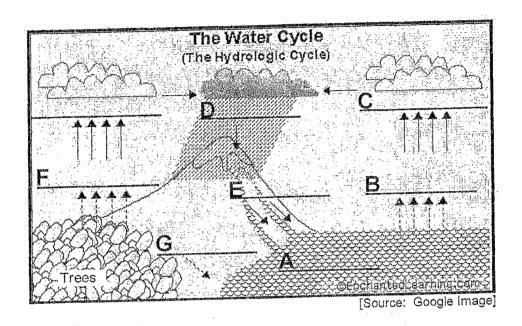
SECTION A

QUESTION 1

1.1 Match the statements in Column A with the concepts in Column B. Write the numbers 1.1.1 to 1.1.10 and only the correct letter from Column B.

	COLUMN A		COLUMN B
1.1.1	Day to day changes in the condition of the	a)	Isotherm
	atmosphere.	b)	Isohyet
1.1.2	Average weather conditions of over long	c)	Humidity
	period of time.	d)	Relative humidity
1.1.3	When temperature increases with height.	e)	Weather
1.1.4	A combination of smoke and fog.	f)	Climate
1.1.5	Amount of radiation reflected from a	g)	Temperature
	surface.		inversion
1.1.6	Long wave radiation reflected from a	h)	Albedo
	surface.	i)	Smog
1.1.7	Lines joining places of equal temperature.	j)	Solar radiation
1.1.8	Lines joining places of equal rainfall.	k)	Terrestrial radiation
1.1.9	Amount of water vapour in the air.	1)	Isobar
1.1.10	Percentage calculation of the amount of		
	water vapour in the air.		

1.2 Refer to the diagram below illustrating the water cycle. Replace the letters A – G in the statements with the correct geographical term. Write down the term next to the letter.

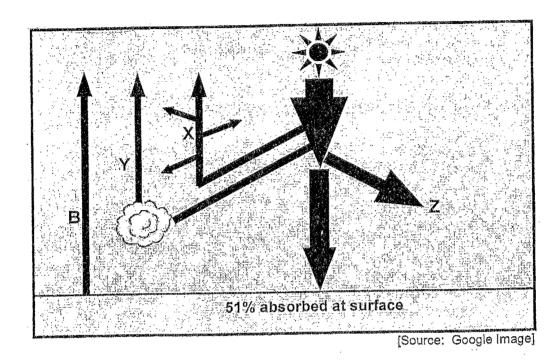


- 1.2.1 A largest reservoir of water on earth.
- 1.2.2 B Process whereby water changes to water vapour.
- 1.2.3 C Process whereby water vapour changes to water.
- 1.2.4 D Any form of moisture released from atmosphere onto surface.
- 1.2.5 E Water that flows on the earth's surface after rainfall.
- 1.2.6 F-Moisture released from plants into the atmosphere.
- 1.2.7 G Process whereby water seeps into the ground.

7X2=[14]

QUESTION 2

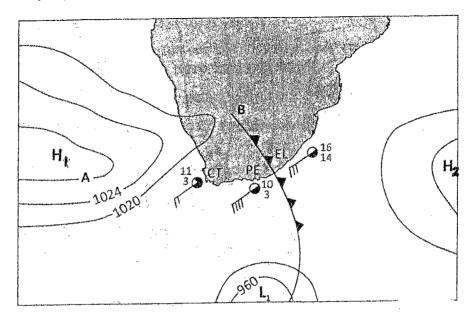
2.1 Refer to the diagram below and answer the questions set.



- 2.1.1 Some of the heat energy given off the sun is lost before it reaches the earth's surface.
 - a) Provide a geographical term for the energy given off by the sun. [2]
 - b) Identify the 3 ways in which energy is lost by naming x, y and z. 3X2=[6]
- 2.2 Name one gas that increases the temperature of the atmosphere. [2]
- 2.3 Which gas makes up approximately 21% of the atmosphere? [2]

QUESTION 3

Refer to the synoptic weather map below and answer the questions that follow.



3.1 Indicate whether this is a summer or a winter map.

Provide a reason for your answer.

[1+2=3]

- 3.2 Refer to front labelled B.
 - a) Name the front labelled B.

[2]

b) Describe two weather conditions associated with this type of front.

[4] [2]

c) State the general direction of this front.

[4]

3.3 Name the high pressure cells labelled H1 and H2.

[2]

3.4 Identify the line represented by A.

[2]

3.5 State the pressure reading at A.

- 3.6 Study the weather station at Cape Town (CT) and describe the weather under the following headings:
 - a) Air Temperature
 - b) Dew point temperature
 - c) Cloud cover
 - d) Windspeed
 - e) Wind direction

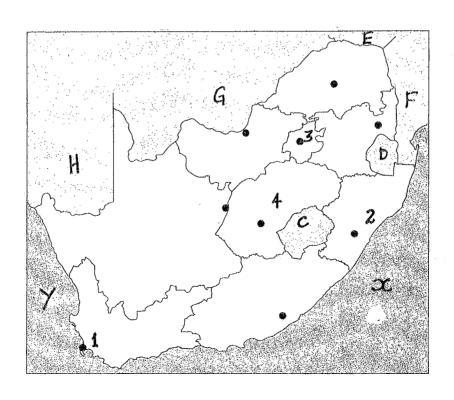
5X2 = [10]

SECTION B - MAPWORK

QUESTION 4 – GIS AND ATLAS WORK

4.1	Define the following terms.	
	4.1.1 GIS (Geographical information systems).	[2]
	4.1.2 Remote sensing.	[2]
4.2	Match the following spatial objects with line, point and polygon.	
	a) School	[2]
	b) River	[2]
	c) Dam	[2]
4.3	List 3 uses of GIS.	2X3=[6]

4.4 Study the map of South Africa below and answer the questions that follow.



4.4.1	Name the provinces labelled 1, 2, 3 and 4.	[4]
4.4.2	Identify the two oceans labelled $oldsymbol{x}$ and $oldsymbol{Y}$ off the coasts of South	
	Africa.	[2]
4.4.3	South Africa has 6 neighbours (C, D, E, F, G and H).	
	Name the neighbours that lie within the borders of South Africa.	[2]
4.4.4	Which province is the largest in terms of its area (km²).	[1]

[25]

TOTAL MARKS: [100]

GREENBURY SECONDARY SCHOOL

DEPARTMENT OF HSS

H.O.D. MR D RAMASAMI

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	Grade 10 - Geography.
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	E - Run-off
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() -	C- Mesosphere
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	- Environment - Crops/Farmland/Ecosystems etc
STOCKETS OF THE STATE OF THE ST	c) Measures to reduce unpact
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ar ing si kalang si sing si si	- A florestation Reduce Industridgation / Use of Filter etc
	8

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Y - Reflection Le part and an annual present a complement and the contract of	स्थापनावाहाराज्ञास्त्रकारिकोला सङ्ग्रहसम्बद्धीय १७५, जेन व्यवस्थात् वेदार सम्बद्धात् कर्णाः स्थापना व्यवस्थात्
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