MINISTRY OF EDUCATION



ANTIGUA AND BARBUDA

2013 GRADE SIX NATIONAL ASSESSMENT

SCIENCE

June 4, 2013

80 Marks

1 Hour and 40 Minutes

This paper contains four (4) sections: A, B, C, D

Do ALL sections and ALL questions.

Write your answers to Sections B, C, & D on this paper.

Student ID: _	
	Fill in vour ID immediately.

Do not write in the space below. For official use only

Sections		KC	UK	XS	Total
A. Multiple Choice	30 marks				
B. Fill in the Blanks	20 marks				
C. Short Answers	20 marks				
D. Skills and Processes	10 marks				
Total	80 marks				

Checked	Bv:	
	- y	

Read the Following Instructions Carefully

- 1. Section A has 30 Multiple Choice questions.
- 2. Each question has four possible answers: A, B, C, D
- 3. Read each question carefully then choose the correct answer.
- 4. On the answer sheet, find the number of the question you want to answer.
- 5. Shade the circle with the letter of the answer you have chosen.

Sample Question:

How many legs does a spider have?

A. 10

B. 8

C. 6

D. 4

The correct answer is 8, so on your answer sheet you should shade the circle containing the letter *B*.









- 6. If you want to change your answer, be sure to erase your old answer completely and fill in your new choice.
- 7. If you cannot answer a question, omit it and go on to the next one. You can come back to the harder question later.
- 8. Your score will be the total number of correct answers.

Section A Multiple Choice (30 Marks) Answer ALL these questions on the answer sheet provided.

1. The process of pushing air out of the lungs is called A. eating B. inhaling C. exhaling D. swallowing C. The diagram below shows part on the digestive system. Identify the part labeled X. A. Appendix B. Esophagus C. Small intestine D. Large intestine 3. The body system that holds itself erect with the help of bones and muscles is the A. skeletal system C. digestive system D. excretory system C. digestive system D. excretory system D. invertebrates D. invertebrates C. Plotosynthesis D. Chemosynthesis D. Diapram below shows part on the respiratory system. Identify the part labeled Y. A. Lungs B. Trachea C. Bronchus D. Diaphragm D. Which of the following does NOT undergo metamorphosis? A. Fly B. Bird C. Butterfly D. Mosquito D. Mosquito D. An empty bleach bottle was converted into a flower pot. This is an example of reusing a feducing C. recycling D. repairing D. repairing D. repairing D. Plumule D. Cotelydon C. Aluminium cans D. Vegetable peelings D. Vegetable peelings D. Vegetable peelings D. Wind temperature D. Stigma, the style and the filament				
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D. stigma, the style and the filament		•		=
	υ.	wind temperature	υ.	stigma, the style and the filament

13. A. B. C. D.	In the life cycle of a mosquito, at which stage is it called a wriggler? Egg Larva Pupa Maggot	20. A. B. C. D.	Which of the following is an example of a marine ecosystem? Pond Tundra Grassland Coral Reef
14. A. B. C. D.	Which of the following is NOT usually considered a useful method to make soil more fertile? Adding sugar Adding humus Adding fertilizer	21. A. B. C. D.	Tiffani used a bathroom scale to find her mass. Which of the following could be her mass ? 40 pounds 40 kilograms 40 Newtons 40 Litres
15. A. B. C. D.	Adding fertilizer The sense organ that detects bitterness and helps us to swallow is skin nose teeth tongue	22. A. B. C.	The natural home of an organism is known as its town village habitat population
16. A. B. C. D.	Tony says "Jacky has brown eyes." The part of the eye he is describing is the iris lens pupil retina	23. A. B. C. D.	Which of the following is an example of a non-renewable resource? Oil Sun Wind Waves
17. A. B. C. D.	In the water cycle, the process by which water falls to the earth is called collection evaporation precipitation condensation	24. A. B. C.	In order for something to burn, there MUST be heat, fuel and water oxygen nitrogen carbon dioxide
18. A. B. C. D.	Which force keeps the planets in orbit around the sun? Frictional force Electrical force Magnetic force Gravitational force A friend says, "What goes up must come down." Which of the following	25. A. B. C. D.	Which of the following is NOT a reptile found in Antigua and Barbuda? Crocodile Racer Snake Ground Lizard Green tree lizard Which of the diagrams below shows the most stable arrangement of the block of
A. B. C. D.	was she describing? Gravity Friction Electricity Magnetism	A. B. C.	wood? A B C

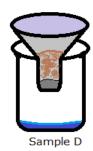
27. In an experiment on soil drainage and retention, the experiment below was set up. The same amount of soil was used in each sample. At the start of the experiment, an equal amount of water was poured over each sample at the same time. The diagram below shows how the samples looked after one minute.



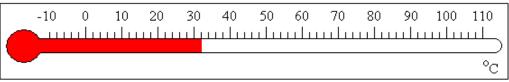


Which soil sample holds water best?





- A. Sample A
- B. Sample B
- C. Sample C
- D. Sample D
- 28. What is the temperature reading on the laboratory thermometer below?



- A. 30 °C
- B. 31 °C
- C. 32 °C
- D. 33 °C
- 29. The census only gives an estimate of the size of the population and not the exact number. One reason is
- A. Children grow older each day.
- B. People always stay in the same place.
- C. More houses are being constructed.
- D. Births and deaths occur during counting.

- 30. Water would evaporate FASTEST from Pot Works Dam on a day that is
- A. cloudy and still
- B. cloudy and windy
- C. sunny and windy
- D. sunny and still

Section B Fill in the Blanks (20 Marks) Complete each sentence below by choosing the correct words from this list. No word should be used more than once. Answer in the space provided.

Boiling Cat Chem	_	Experiment Frog Goat Heat Hypothesis Insulator Inductor	Leaching Litter Open Parallel Physical Pole Rat	Series Solute Solvent Solution Stapes Steel Temperature
1.	Melting and free	zing are examples of	changes.	
2.	i	is an example of a rever	rsible change.	
3.	The earth rotate	s on its	once every 24 hours.	
4.	t	tells how hot or cold sor	nething is.	
5.		circuits have only one pa	ath for current to flow.	
6.	Trash, like plasti	ic bags, left lying in the	school ground is called	
7.	A substance whi	ch does not conduct ele	ctricity is called a (an) _	<u>.</u>
8.	Materials that de	ecay easily are		
9.	The large scale of	cutting down of trees is	called	·
10.	The smallest bor	ne in the ear is the	·	
11.	In the circuit bel	low if is	placed between A and E	3, the bulb will light.
	Ā B			

12. Elloy says, "Water cools faster in a metal cup than a plastic cup." This is an example of a (an) ______.

13.	When sugar is mixed with water it dissolves.	The sugar is called the,	
	while the water is called the		

14. Lettuce and cabbage can be affected by ______because they are not deep- rooted plants.

Study the information below then answer questions 15, 16 and 17.

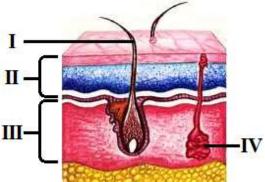
Animal	Food eaten
Goat	Leaves, trees, grass
Cat	Rats, fish, milk
Rat	Fruits, insects, eggs
Frog	Insects, worms, flies
Dog	Cooked rice, raw meat

15.	From the table,	is an	herbivore.

- 16. From the table, two omnivores are _____and _____.
- 17. From the table, two carnivores are _____and _____.

Short Answers	(20 Marks)
	Short Answers

1. The diagram below shows the human skin.



		III—IV	
	A.	Identify the parts labeled (I) to (IV).	
		(I)	
		(II)	
		(III)	
		(IV)	(4 marks)
	В.	If someone touches your body, the skin sends a message to your brain and you feel the touch. Describe how the skin sends a message to the brain.	
			(2 marks)
2.	A.	Explain what is meant by the term 'pollution'.	
			(2 marks)
	В.	State one way that people have helped to pollute water.	
			(1 mark)
	C.	State one way that people have helped to pollute the land.	
			(1 mark)

	D.	During a hurricane, Josette's rain water supply became polluted because harmful germs got into her cistern. Explain two things Josette can do to make the water safe for drinking.	
		(i)	
		(ii)	(2)
3.		In 1995 Hurricane Luis struck Antigua and Barbuda. The beach at Fort James in Antigua was badly damaged. The picture below shows that a large portion of the road at Fort James Beach was washed away during the storm.	(2 marks)
	A.	Explain how a hurricane could have caused this damage.	
			(2 marks)
	В.	State two things people can do to reduce the chance that a hurricane will do as much damage to the beach in the future.	
			(2 marks)

4. The picture below shows an ecosystem. The birds are called egrets and they eat ticks which may be on the cattle. They also eat small insects that are in the grass. The insects eat the same grass on which the cattle are feeding.



Draw a food web based on the information given about the picture.

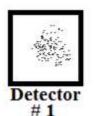
(4 marks)

Section D

Skills and Processes

(10 Marks)

1. An experiment was conducted to observe the amount of air pollution found in three different areas. Two pollution detectors were made by cutting out identical pieces of white plastic and rubbing them with Vaseline (grease). Detector #1 was put inside the classroom and Detector #2 was put in the playfield. The following day, the two detectors were collected and examined. The diagram below shows the detectors.





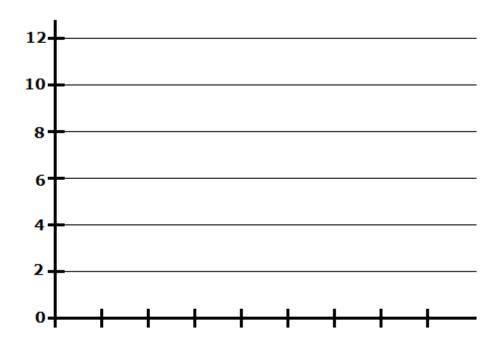
A.	Which area showed the lower level of pollution?	(1 mark)
B.	Suggest one good reason why this area had the lower pollution level.	(1 mark)
C.	What was the manipulated variable in this experiment?	(1 mark)
D.	What was the responding variable in this experiment?	(1 mark)

2.

A. As part of his science SBA project on recycling, Jorel collected aluminium cans for five days. He recorded how many cans he collected each day and wrote this note in his book.

Monday (10 cans), Tuesday (8 cans), Wednesday (12 cans), Thursday (4 cans) Friday (7 cans).

In the space below, draw a graph of the results of the experiment. (5 marks)



B. Jorel was feeling a bit ill one day during the week. Based on the graph, on which day was Jorel most likely to be ill?

(1 mark)

G6NA 2013 END OF TEST