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INSTRUCTIONS TO CANDIDATES

- **1.** Check that this assessment booklet contains 6 questions printed on 10 pages numbered 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11.
- **2.** Write your Index Number on the assessment booklet in the space provided above.
- **3.** You should not use red, green or black ink in answering questions.
- **4.** Write all your answers clearly in the assessment booklet.
- **5.** Attempt all questions.

Question	Markir	ng	Revis	ion	Control		
Question	Marks	Sig	Marks	Sig	Marks	Sig	
1							
2							
3							
4							
5							
6							
Total							
Sig (HoG)							

Question 1 (5 marks)

Circle the correct answer.

- 1. The set of teeth which **replaces** the set of milk teeth in humans is called
 - A permanent teeth
 - **B** baby teeth
 - **C** molar teeth
 - **D** canine teeth
- 2. **Diagram 1** shows the movement of the Earth around the Sun.

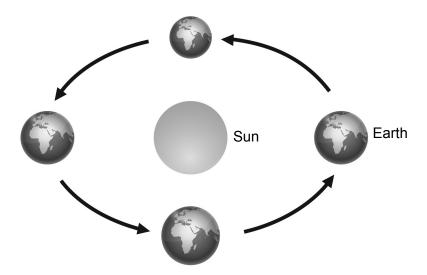


Diagram 1: Movement of the Earth around the Sun

How long does the Earth take to make a complete rotation **around the Sun**?

- **A** 1 day
- **B** 1 week
- C 1 month
- **D** 1 year

3. **Diagram 2** shows part of a forest ecosystem.

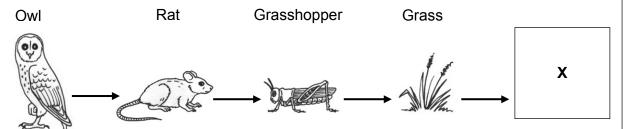


Diagram 2: Part of an ecosystem

What is the missing part in box **X** of this chain?

- A Ant C Sun
- B Rock D Human
- 4. **Diagram 3** shows solar panels used to produce electricity.

One disadvantage of using this source of energy is that

- A it causes pollution.
- **B** it will run out one day.
- **C** the panels have to be replaced each month.



Diagram 3: Solar panels

- **D** less electricity is produced when there is less sunlight.
- 5. **Diagram 4** shows a suction cup stuck on a window pane.



Diagram 4: Suction cup on a window pane

Which one of the following explains why the suction cup **remains stuck** on the window pane?

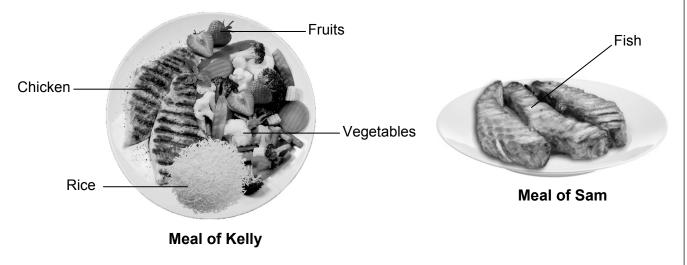
- A The air pressure inside the suction cup is greater than the air pressure outside it.
- **B** The air pressure outside the suction cup is greater than the air pressure inside it.
- **C** There is no air pressure outside the suction cup.
- **D** The air pressure inside the suction cup is equal to the air pressure outside it.

Question 2 (7 marks)

(a) Why does a baby need to drink a lot of milk?

___[1]

(b) **Diagram 5** shows the meals of three friends, **Kelly, Sam** and **Mira**.



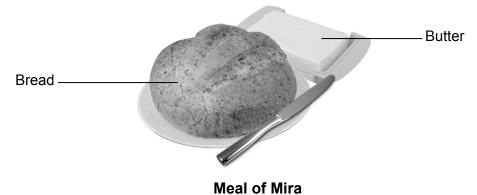


Diagram 5: Meals of Kelly, Sam and Mira

Fill in the table below by **ticking** the correct box to show the types of food or meal each friend is having.

	Food for growth only	Food for energy only	Food for health only	A balanced meal
Kelly				
Sam				
Mira				

(c) In the table below, classify the following animals according to their body covering:

Deer Crocodile Bat

Pigeon Goldfish Kestrel

Hairs	Scales	Feathers

[3]

Question 3 (11 marks)

(a) Fill in the blanks in the sentences below.

. ,	•	,	*********	piarits	manufacture	uieii	OWII	1000	15	Callec

- (ii) During this process, plants take in _____ gas and release _____ gas.
- (iii) The green substance called ______, which is found in leaves, absorbs sunlight.

[4]

- (b) Jay wants to find out how the amount of water balsam plants get over a period of 10 days affects their height.
 - 1. He uses 3 similar balsam plants and plants each one in Pot X, Pot Y and Pot Z.
 - 2. He waters each plant every day for 10 days.
 - 3. The amount of water he pours into each pot every day is shown in the table below:

Pot	Amount of water every day
X	10 cL
Υ	20 cL
Z	30 cL

- 4. All other conditions are the same for the 3 pots.
- 5. He observes the plants and measures their height every two days.

The table below shows his measurements of the height of the plants:

	Hei	Height of plant in:									
Day	Pot X	Pot Y	Pot Z								
Day 0	10 cm	10 cm									
Day 2	10 cm	11 cm	12 cm								
Day 4	11 cm	13 cm	15 cm								
Day 6	12 cm	16 cm	18 cm								
Day 8	14 cm	18 cm	20 cm								
Day 10	15 cm	20 cm	22 cm								

(i)	1. What should be the height of the plant in Pot Z on Day 0 ?	[1]
	2. Explain your answer.	
		[1]
(ii)	What was the height of the plant in Pot Y on Day 6 ?	[1]
(iii)	What can Jay conclude from his experiment?	
		[2]

(c)		-	importar nment.	it for t	the e	environm	ent.	Give	two	ways	how	defores	station
	1	 											
	2	 											
	_	 						· · · · · · ·	 				_ [2]

Question 4 (10 marks)

(a) **Diagram 6** shows five objects made out of different materials.



Diagram 6: Objects made out of different materials

In the table below, give the property of the material which explains why it is used to make each of the objects given in **Diagram 6**. An example is given.

Object	Property of the material which makes it suitable to make this object
Aluminium window frame	Aluminium does not rust.
Wooden spoon	
Rubber tyre	
Iron nail	
Plastic raincoat	

[4]

- (b) Sara conducts an experiment to find out which material is most appropriate to use to filter water. She uses the following materials for her experiment:
 - Cotton
 - Silk
 - Wool
 - Nylon

Diagram 7 shows her set-up using one of the materials.

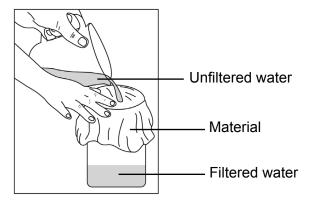
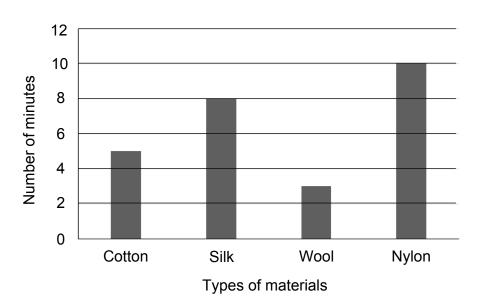


Diagram 7: Filtering water

She records the amount of time one litre of water takes to pass through the material completely. The bar chart below shows her recordings:



(i) How many minutes does it take for one litre of water to pass through **cotton**?

(ii) The least appropriate material is the one which filters water the slowest. Which one of the materials is **least appropriate** to filter water?

(iii)	Which property of the material you have given in part (b)(ii) makes it least
	appropriate to be used to filter water?

(c) In Mauritius, old water pipes are being replaced. One reason for this is because the water pipes are rusting.

(i)	Which metal was used to make these pipes?
\''/	vinon motal viao acca to make these pipes:

_____[1]

(ii) What are the two conditions for rusting to take place?

[1]

[1]

(iii) Give one observation that tells you that rusting has occurred.

_____[1]

Question 5 (9 marks)

(a) **Diagram 8** shows the percentage of electricity produced from different sources of energy in Mauritius.

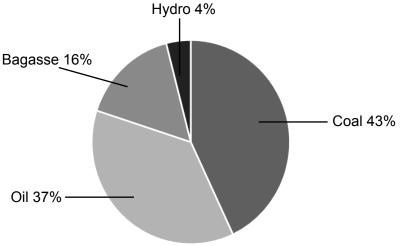


Diagram 8: Percentage of electricity produced from different sources Based on the above diagram,

(i)	what is the mai	n source of	energy used	d to produce	electricity i	in Mauritius?
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(ii) which **renewable** source of energy is used **the most** to produce electricity in Mauritius?

[1]

[1]

[1]

	(iii)	During periods of drought , the production of electricity using hydro energy decreases. Explain why.				
		[2]				
(b)	soui	nelp protect the planet, the Government of Mauritius encourages the use of green roces of energy. Explain how the use of green sources of energy can help to ect the planet.				
		[2]				
(c)	on t	ther measure taken by the Government of Mauritius to protect the planet is the ban the use of plastic bags. Give one way how plastic bags are harmful to the ronment.				
		[2]				
(d)		ead of throwing away plastic objects, they are turned into new useful objects. at is the name given to this process? [1]				
		n 6 (8 marks)				
(a)		chools be closed for a few days because of the highly polluted air. Diagram 9: Poor air quality in India				
	(i)	What could have caused the air to become polluted?				
	(ii)	Explain why it is important that children are protected from the poor air quality.				

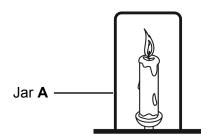
(b) **Diagram 10** shows two identical glass jars, **A** and **B**, containing two identical candles. At the beginning of the experiment, the following is found under each jar:

Under Jar A:

- 1. 1 burning candle
- Air containing:
 0.03% carbon dioxide and
 21% oxygen.

Under Jar B:

- 1. 1 burning candle
- 2. Air containing:1% carbon dioxide and21% oxygen.



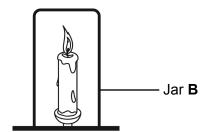


Diagram 10: Candles in jars containing different types of air

(i)	1	. Under which glass jar will the candle go out first ?	
	2	Explain why.	[′
	_		[1
(ii)) 1	. What will happen to the level of oxygen under the glass jars?	[1
	2	Explain why.	
	_		[1
Но	ow de	o animals help in maintaining the composition of air in the atmosphere?	
			[2]

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