



Let the mind manage the body
Que l'esprit gère le corps

SCIENCE

(Subject code No. P141/2)

Index Number:

MAURITIUS EXAMINATIONS SYNDICATE Primary School Achievement Certificate Assessment Grade 6 Modular August 2019 Time: 1 hour Total Marks: 50

INSTRUCTIONS TO CANDIDATES

1. Check that this assessment booklet contains **6** questions printed on **9** pages numbered 2, 3, 4, 5, 6, 7, 8, 9 and 10.
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	Marking		Revision		Control	
	Marks	Sig	Marks	Sig	Marks	Sig
1						
2						
3						
4						
5						
6						
Total						
Sig (HoG)						

QUESTION 1 (5 marks)**Circle the correct answer.**

1. Which one of the following gases is used as a **fire extinguisher**?
A Oxygen
B Carbon dioxide
C Water vapour
D Nitrogen

2. How many teeth are there in a set of permanent teeth in human **adults**?
A 14
B 20
C 26
D 32

3. What is the percentage of **oxygen** gas in the atmosphere?
A 0.01%
B 0.03%
C 21.0%
D 78.1%

4. Which one of the following materials is obtained from an **animal**?
A Cotton
B Paper
C Rubber
D Silk

5. Which one of the following is a characteristic of **birds**?

- A** They have feathers on their body.
- B** They have a hard exoskeleton.
- C** They give birth to their young ones.
- D** They move by crawling.

QUESTION 2 (8 marks)

(a) Draw lines to match the food items in **Column A** to their main functions in the body in **Column B**.

Column A

Bread and butter

Fish and lentils

Cucumber and carrots

Column B

Provide vitamins for health

Provide energy for activities

Provide materials for growth

[3]

(b) Complete the table below by giving **two different types of food items** which form part of the diet of each group. An example is given.

Herbivores	Carnivores	Omnivores
Grass		
Fruits		

[4]

(c) Animals can be classified according to their diets. Give **another** characteristic that can be used to classify animals.

..... [1]

QUESTION 3 (11 marks)

- (a) Fill in each of the sentences below by using the correct word from the following list:

Earth, planet, sun, moon, solar

- (i) There are eight planets in the system.
(ii) The is a natural satellite.
(iii) The takes 24 hours to complete a rotation on itself.
(iv) The is the main source of energy for plants.

[4]

- (b) Which movement of the Earth takes a **year** to be completed?

..... [1]

- (c) Give one reason why life is possible on Earth.

.....
..... [1]

- (d) One threat to Earth is global warming.

- (i) What is global warming?

.....
..... [1]

- (ii) Give one **cause** of global warming.

.....
..... [1]

- (iii) Give one **effect** of global warming on Earth.

.....
..... [1]

- (e) **Diagram 1** shows different types of waste being disposed of in different bins. This is considered to be good practice.



Diagram 1: Waste disposal

Give one reason why it is important to use such a practice for the disposal of waste.

.....
..... [1]

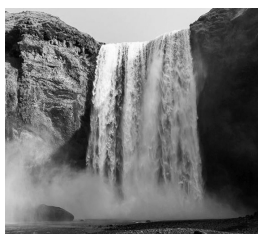
- (f) Give one useful way of disposing of waste from plants.

.....
..... [1]

QUESTION 4 (8 marks)

Diagram 2 shows different sources of energy used to produce electricity in Mauritius.

Falling water used
in hydro power
stations



Heavy oil used in
thermal power
stations



Bagasse used
by sugarcane
factories



Wind used by
wind turbines



Diagram 2: Different sources of energy

- (a) Complete the following sentence with the correct words:

In a hydro power station, the force of falling water spins a which
then turns a to produce electricity. [2]

- (b) What is meant by renewable and non-renewable sources of energy?

Renewable source:
.....

Non-renewable source:
..... [2]

- (c) From **Diagram 2**, name one source of:

(i) renewable energy:

(ii) non-renewable energy: [2]

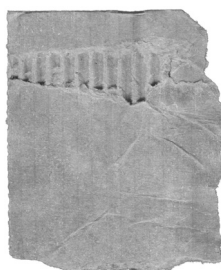
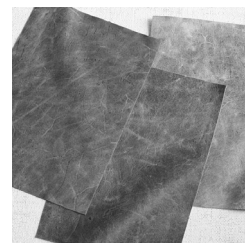
- (d) The Government of Mauritius encourages the use of renewable energy.
Give two ways in which this is beneficial to Mauritius.

1.
.....

2.
..... [2]

QUESTION 5 (9 marks)

- (a) Kabir conducts an experiment on different materials. He wants to find out how water passes through these materials. **Diagram 3** shows the different materials he uses for his experiment.

Tissue paper**Plastic sheet****Carton****Leather****Diagram 3: Different materials**

Kabir pours the same amount of water on each material. He then records the amount of time it takes for the water to pass through each of them.

The table below shows his recordings:

Material	Amount of time
Tissue paper	5 seconds
Plastic sheet	Water does not pass through
Carton	2 minutes
Leather	5 hours

- (i) Which one of the above materials is the **most permeable to water**?

.....

[1]

- (ii) 1. Which one of the above materials is most appropriate to make a **raincoat**?

.....

[1]

2. Explain your answer given in (a)(ii)(1).

.....

..... [1]

- (b) Emily, Sheila and Sara want to build a house for their dog in their garden. Each one proposes a different material. **Diagram 4** shows their conversation.



Diagram 4: Conversation among the girls

- (i) Fill in the table below by giving one advantage and one disadvantage of using each of the different materials proposed to build the house of their dog. An example is given.

Material	Advantage	Disadvantage
Iron		<u>Iron rusts when exposed to air and water.</u>
Wood		
Glass		

[5]

- (ii) Give one way in which the rusting of iron can be prevented.

.....
.....

[1]

QUESTION 6 (9 marks)

Ajay observes that there are snails eating the lettuce plants in his garden. **Diagram 5** shows the lettuce plants and the snails.

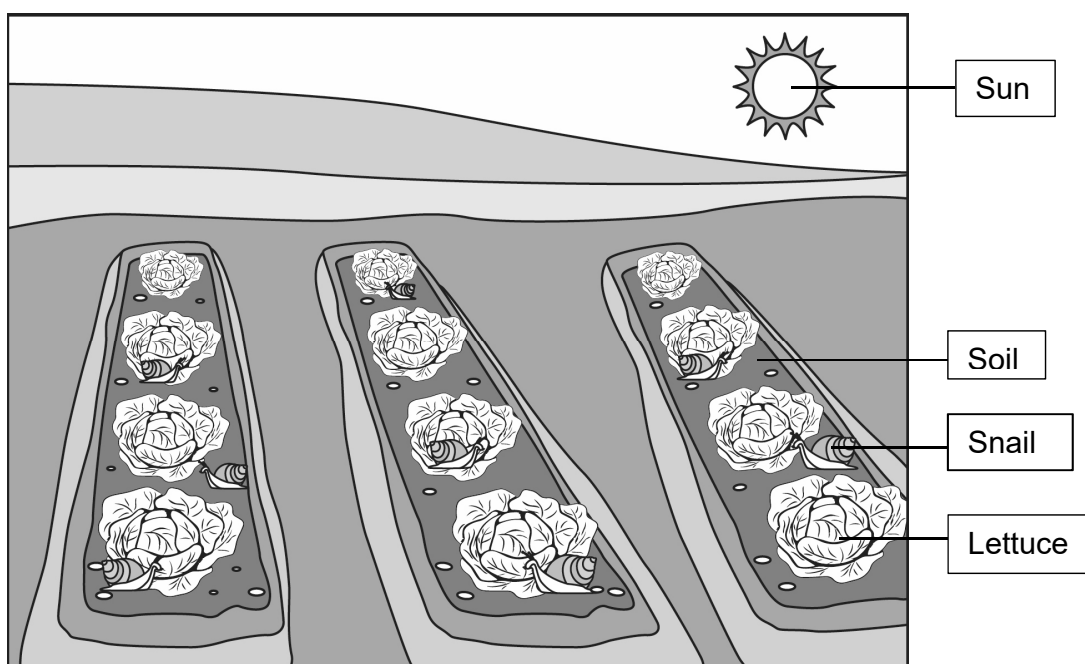
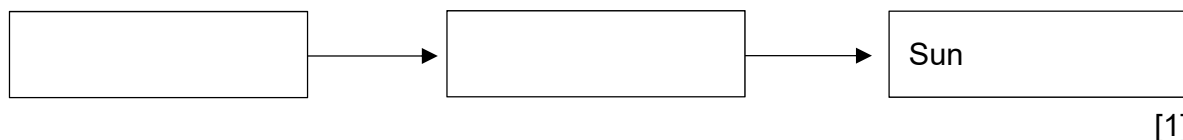


Diagram 5: Lettuce plants and snails

- (a) Complete the boxes below to show the dependence between the lettuce plants and the snails.



- (b) Apart from the sun, name another **non-living** thing shown in **Diagram 5** upon which the lettuce plants depend.

..... [1]

- (c) (i) Name the process by which the **leaves** of the lettuce plant manufacture its food.

..... [1]

- (ii) Describe the process you have given in (c)(i).

.....
 [2]

- (d) Briefly describe a forest ecosystem.

.....

..... [2]

- (e) **Diagram 6** shows a forest next to a stone crusher.



Diagram 6: A forest next to a stone crusher

- (i) Give one way how the air pollution caused by the stone crusher affects the trees in the forest shown in **Diagram 6**.

.....

..... [1]

- (ii) People have decided to clear the forest completely. Give one harmful consequence this will have on the environment.

.....

..... [1]

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