



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



Index Number:

MAURITIUS EXAMINATIONS SYNDICATE
 Primary School Achievement Certificate Assessment
 Grade 6 Modular
 December 2020
 Time: 1 hour Total Marks: 50

SCIENCE
 (Subject code No. P141/2)

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	Marking		Revision		Control	
	Marks	Sig	Marks	Sig	Marks	Sig
1						
2						
3						
4						
5						
6						
Total						
Sig (HoG)						

Question 1 (5 marks)

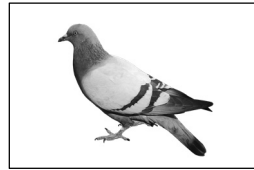
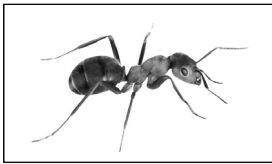
Circle the letter which shows the correct answer.

1. Which one of the following is a **metal**?

- A Cotton
- B Gold
- C Leather
- D Wool

[1]

2. Which one of the following animals is an **insect**?



- A Ant
- B Crab
- C Pigeon
- D Spider

[1]

3. **Diagram 1** shows different parts of a plant.

Which one of the following parts is **mainly** responsible for manufacturing food for the plant?

- A Flower
- B Fruit
- C Leaf
- D Root

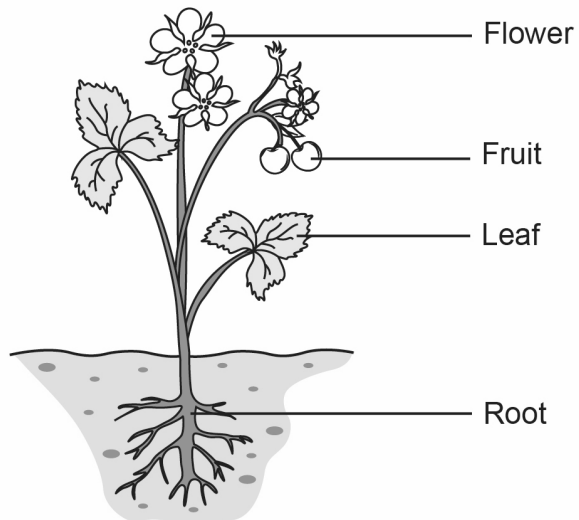


Diagram 1: Different parts of a plant

[1]

4. Which form of energy is at the input of a television set?

- A Electrical energy
- B Heat energy
- C Movement energy
- D Sound energy

[1]

5. Alia places four identical candles **P**, **Q**, **R** and **S** on a table. She lights them at the same time and covers candles **P**, **Q** and **R** with jars of different sizes and leaves candle **S** uncovered, as shown in **Diagram 2**.

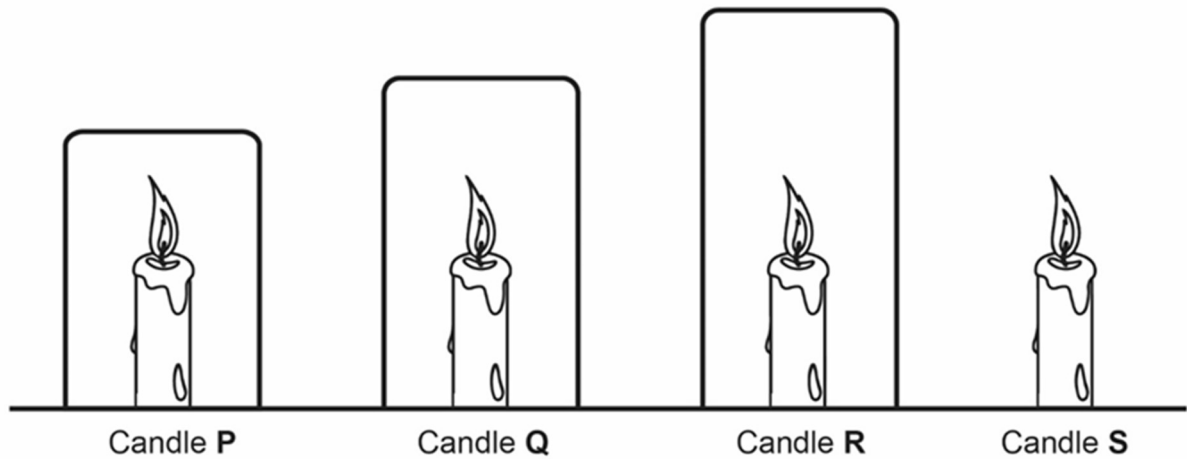


Diagram 2: Candles burning

Which candle will burn for the longest time?

- A Candle P
- B Candle Q
- C Candle R
- D Candle S

[1]

Question 2 (8 marks)

- a) i) Robin is preparing a **vegetarian** meal for his friend.
Complete **Table 1** by giving an example of food for growth for this meal.

Table 1: Vegetarian meal for Robin's friend

Food for growth	Food for health	Food for energy
.....	Lettuce	Rice

[1]

- ii) Why is it important to eat balanced meals?

[1]

- b) **Diagram 3** shows three different types of teeth.

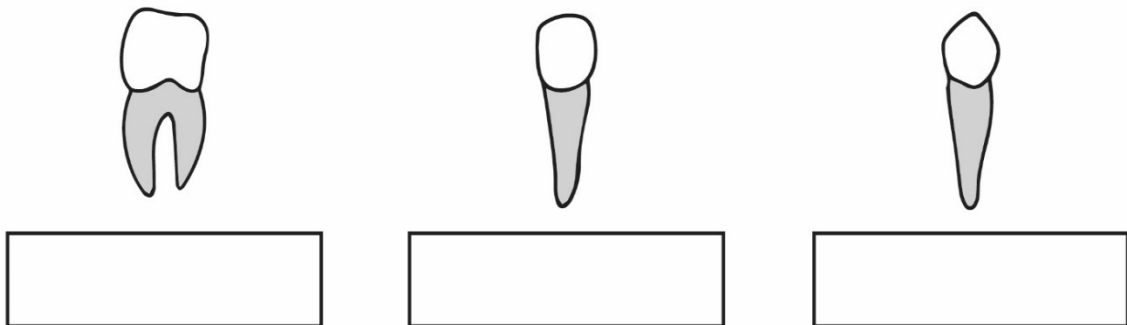


Diagram 3: Types of teeth

- i) Write the name of the type of teeth in the empty boxes in **Diagram 3**, using words from the list below.

Canine Incisor Molar Premolar

[3]

- ii) Which teeth are used for biting food?

[1]

- iii) What should you do to take care of your teeth?

[1]

c) Explain why herbivorous animals such as cows do not have canines.

[1]

Question 3 (8 marks)

a) The pie chart in **Diagram 4** shows the composition of the different gases present in dry air.

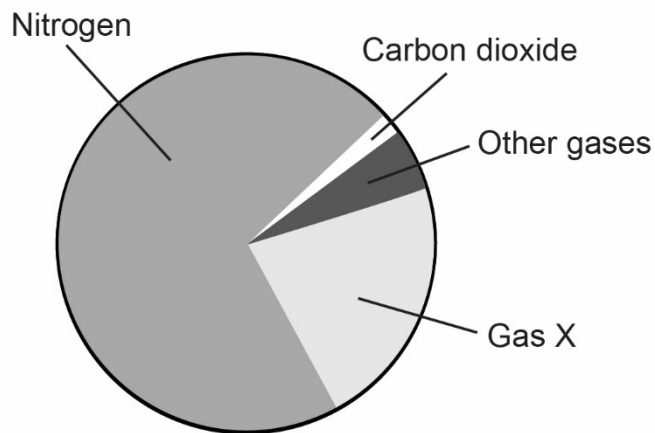


Diagram 4: Composition of gases in dry air

Use **Diagram 4** to answer the following questions.

i) Name Gas X.

[1]

ii) Which gas is present in the **largest amount** in dry air?

[1]

b) **Diagram 5** shows sources of pollution around a school.



Diagram 5 : Sources of pollution around a school

i) What is air pollution?

[1]

ii) Give **two** examples of air pollution shown in **Diagram 5**.

1. _____

2. _____

[2]

iii) Give **one way** in which air pollution can be reduced.

[1]

- c) Fire extinguishers are used to put out fires.
- i) Which gas is released by fire extinguishers?

[1]

- ii) Give another common way to extinguish fires.

[1]

Question 4 (8 marks)

Diagram 6 shows how electricity is produced in a thermal power station and distributed to houses.

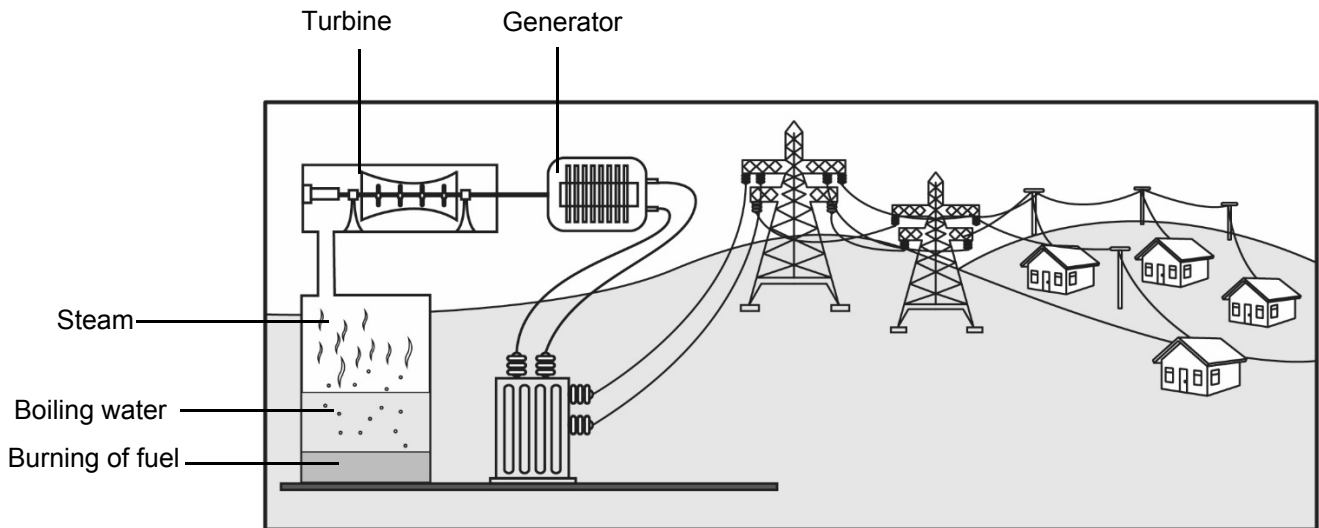


Diagram 6: A thermal power station

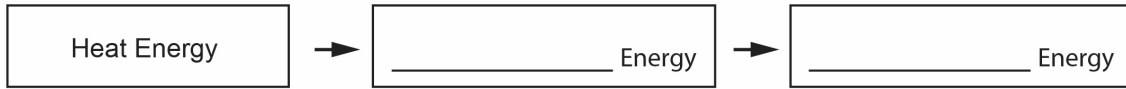
- a) i) Name a fuel that can be used in the thermal power station shown in **Diagram 6**.

[1]

- ii) Give one advantage of using thermal power stations to produce electricity.

[1]

b) What energy transformations take place in the thermal power station shown in the **Diagram 6**? Fill in the boxes below.



[2]

c) In Mauritius, electricity is also produced using the energy of falling water.

i) Why is the energy of falling water considered a renewable source of energy?

[1]

ii) Give **another** renewable source of energy used to produce electricity in Mauritius.

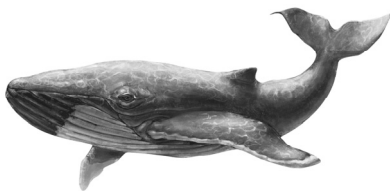
[1]

iii) Suggest a reason why hydro power stations produce less electricity during periods of drought.

[2]

Question 5 (11 marks)

a) **Diagram 7** shows a whale and a fish.



Whale



Fish

Diagram 7: Whale and fish

i) Which characteristic, visible in **Diagram 7**, tells us that these animals live in water?

[1]

ii) Which animal shown in **Diagram 7** is a mammal?

[1]

iii) Complete the table below to indicate how the whale and the fish reproduce.

Animal	Way of reproducing
Whale	
Fish	

[2]

b) Plants are living things which manufacture their own food.

i) By which **process** do plants make their own food?

[1]

ii) Describe the process you mentioned in **part (b)(i)**.

[2]

c) Give **two** ways in which plants are useful to people.

1. _____

2. _____

[2]

d) Explain how plants and animals help to maintain a balance in air composition.

[2]

Question 6 (10 marks)

Marks

- a) **Diagram 8** shows an airplane.
The labelled parts of the airplane are made up of different materials.

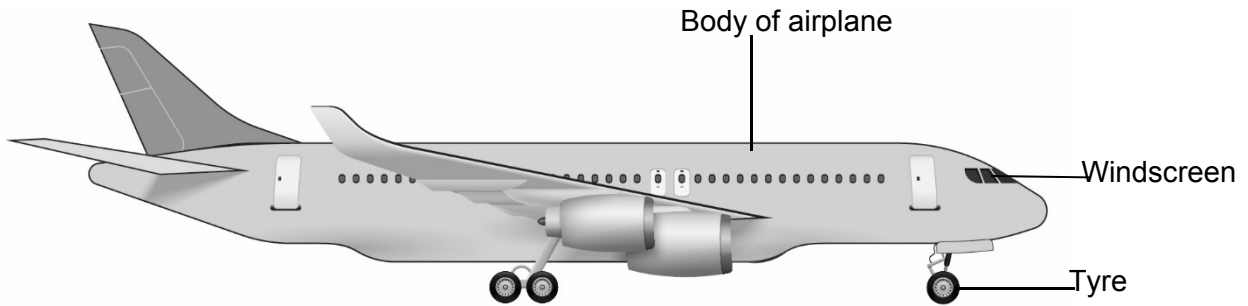


Diagram 8: An airplane

- i) Complete the table below using the appropriate words from the list given.

Rubber Glass Gold Aluminium

The first one has been done for you.

Part of plane	Material made of
Body of plane	Aluminium
Windscreen
Tyres

[2]

- ii) Give two reasons why **aluminium** is used to make the body part of the airplane.

1. _____
2. _____

[2]

- iii) Which characteristic of the material used for the windscreen makes it suitable for this part of the airplane?

[1]

- b) Ryan places an iron nail in a glass of water as shown in **Diagram 9**. After a few days, he observes that the iron nail in the glass is rusting.

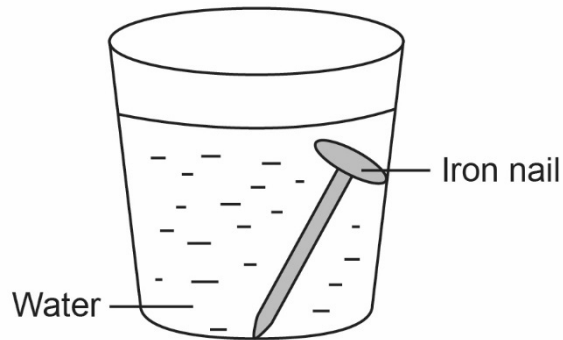


Diagram 9: Iron nail in water

- i) Explain why the iron nail is rusting.

[2]

- ii) What does Ryan observe to conclude that rusting is taking place?

[1]

- c) Give **two ways** in which Ryan can prevent the iron nail from rusting.

1. _____

2. _____

[2]

Blank page