



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 2024

Time: 1 hour

Total Marks: 50

Total Marks: 50

INSTRUCTIONS TO CANDIDATES

1. Check that this assessment booklet contains **6** questions printed on **12** pages numbered 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13.
 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		Quality Control	
	Marks	Sig	Marks	Sig	Marks	Sig
1						
2						
3						
4						
5						
6						
Total						
Sig (HoG)						

Question 1 (5 marks)

Circle the correct answer. Each item carries one mark.

- (a) Tigers eat the flesh of other animals.

What type of animal is the tiger?

- A Carnivorous
- B Granivorous
- C Herbivorous
- D Omnivorous

- (b) **Diagram 1** shows an umbrella. It protects us against rain.



Diagram 1: An umbrella

Which material is **most appropriate** to make part X of the umbrella?

- A Glass
- B Plastic
- C Silk
- D Wool

(c) What is the form of energy **at the output** when a television set is switched on?

- A Chemical
- B Electrical
- C Light
- D Movement

(d) Which one of the following gases is necessary for **burning** to take place?

- A Carbon dioxide
- B Nitrogen
- C Oxygen
- D Water vapour

(e) **Diagram 2** shows a meal for breakfast.

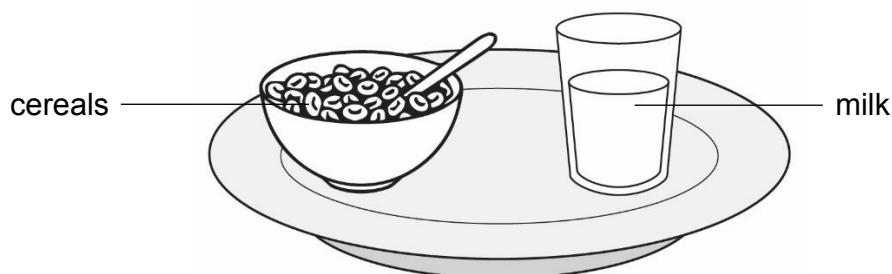


Diagram 2: A breakfast meal

Which of the following food items should be added to the meal to make it a **balanced** meal?

- A Apple
- B Bread
- C Lentils
- D Cheese

[5]

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Question 2 (8 marks)

- (a) **Diagram 3** shows the percentage composition of gases in dry air.

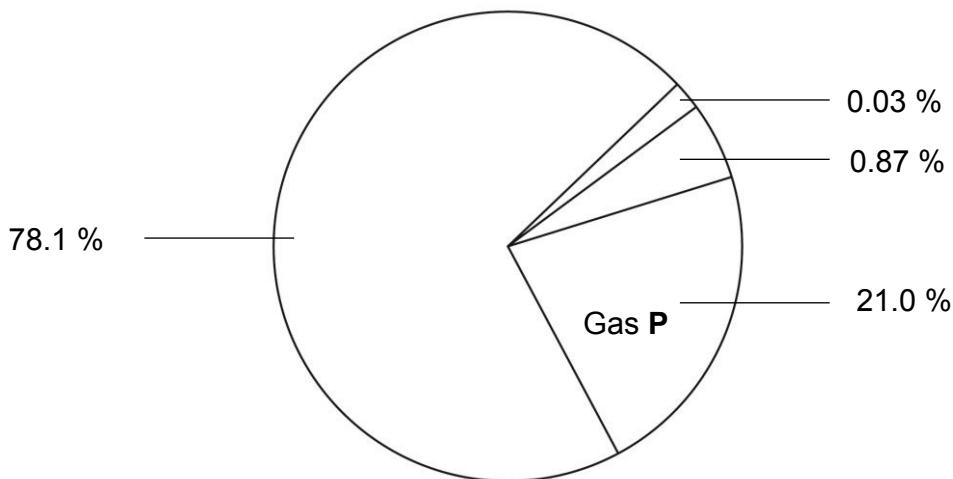


Diagram 3: Percentage composition of gases in dry air

- (i) What is the percentage of **carbon dioxide** found in dry air? Tick (✓) the correct box.

21.0%

0.03%

0.87%

[1]

- (ii) On **Diagram 3**, shade like this the part of the chart that represents **nitrogen gas**. [1]

- (iii) Name the gas labelled **P**.

.....

[1]

- (iv) Which gas is **absent** in dry air?

.....

[1]

- (b) Air exerts pressure.

Give one use of air pressure in everyday life.

.....

[1]

- (c) **Diagram 4** shows a polluted area.

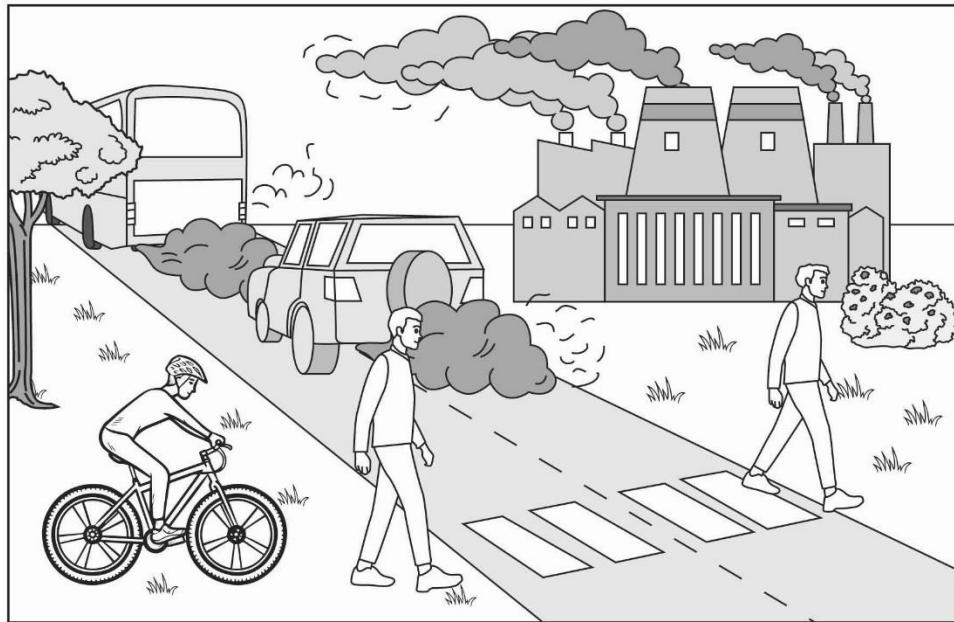


Diagram 4: A polluted area

- (i) What **type of pollution** is shown in **Diagram 4**?

.....

[1]

- (ii) Give one **source** of pollution shown in **Diagram 4**.

.....

[1]

- (iii) Give one way how **to reduce** the pollution shown in **Diagram 4**.

.....

[1]

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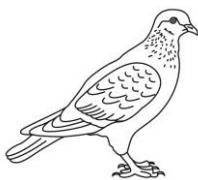
Question 3 (11 marks)

(a) Animals are living things.

Give one characteristic of living things.

..... [1]

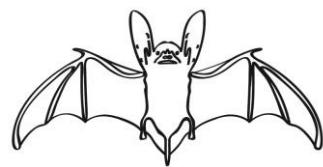
(b) **Diagram 5** shows three animals: a pigeon, a bee and a bat.



A pigeon



A bee



A bat

Diagram 5: Three animals

In **Table 1**, state the body cover of each animal shown in **Diagram 5**.

Table 1

Animal	Body cover
Pigeon
Bee
Bat

[3]

(c) (i) Which animal in **Diagram 5** is a mammal?

..... [1]

(ii) Apart from body cover, give another characteristic of mammals.

..... [1]

(d) (i) To which group of animals does the **bee** belong? Tick (✓) the correct box.

Birds

Insects

Reptiles

[1]

(ii) Apart from its body cover, give two reasons why the bee is classified in the group of animals you chose in (d)(i).

1.

2. [2]

(iii) Name one animal that belongs to the same group of animals as the bee.

..... [1]

(e) How do birds and reptiles reproduce?

..... [1]

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Question 4 (12 marks)

- (a) (i) In Table 2 tick (✓) the correct column in the table below to indicate whether the given materials are **natural** or **man-made**.

An example is given.

Table 2

Material	Natural	Man-made
Plastic		✓
Glass		
Leather		
Cotton		
Steel		

[4]

- (ii) Give one use of leather.

..... [1]

- (iii) Why are cotton clothes comfortable to wear?

..... [1]

- (b) An experiment is set up as shown in **Diagram 6**.

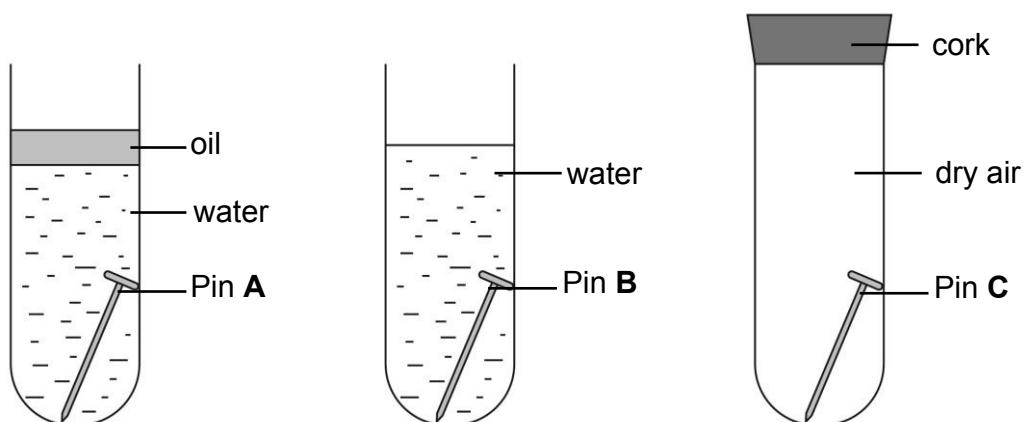


Diagram 6: Experimental set-up

All the pins in **Diagram 6** are made up of the same material.

- (i) After a few days, Pin **B** changes colour.

State the colour of Pin **B** after a few days.

.....

[1]

- (ii) Name the process by which Pin **B** changes colour.

.....

[1]

- (iii) Pin **A** and Pin **C** do not change colour. Explain why.

Pin **A**:

Pin **C**: [2]

- (iv) Name a **natural** material from which the pins are made.

.....

[1]

- (v) What does this experiment show?

.....

[1]

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Question 5 (7 marks)

- (a) **Diagram 7** shows a power station which uses heavy oil.

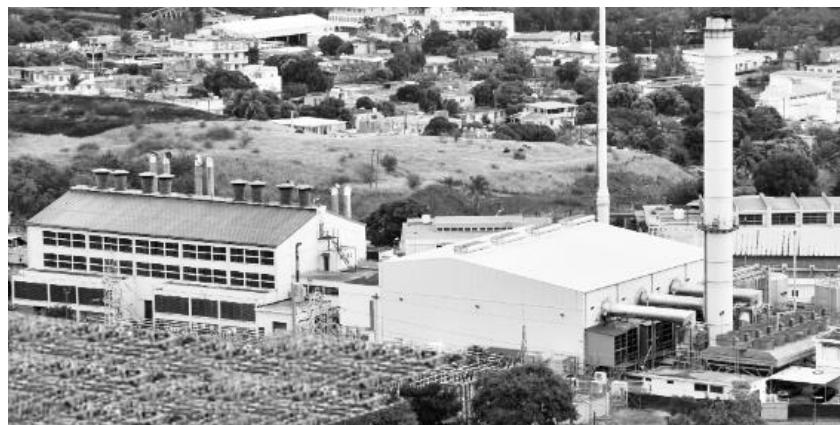


Diagram 7: A power station which uses heavy oil

- (i) What type of power station is shown in **Diagram 7**?

..... [1]

- (ii) Name a **source** of energy used in such power stations.

..... [1]

- (iii) Fill in the blanks to show the energy transformation that takes place in the power station.

..... energy → movement energy → energy

[2]

- (iv) Give one **disadvantage** of this type of power station.

..... [1]

- (b) **Diagram 8** shows solar panels on a roof.

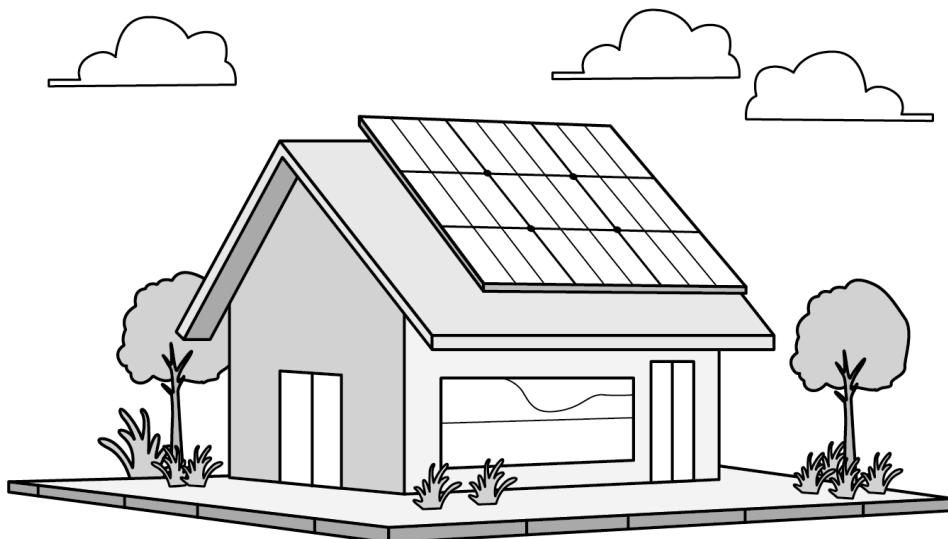


Diagram 8: Solar panels on a roof

- (i) What is the **form** of energy **used** by solar panels?

.....

[1]

- (ii) Give a reason why people are encouraged to use solar panels at home.

.....

[1]

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Question 6 (7 marks)

- (a) **Diagram 9** shows an ecosystem.

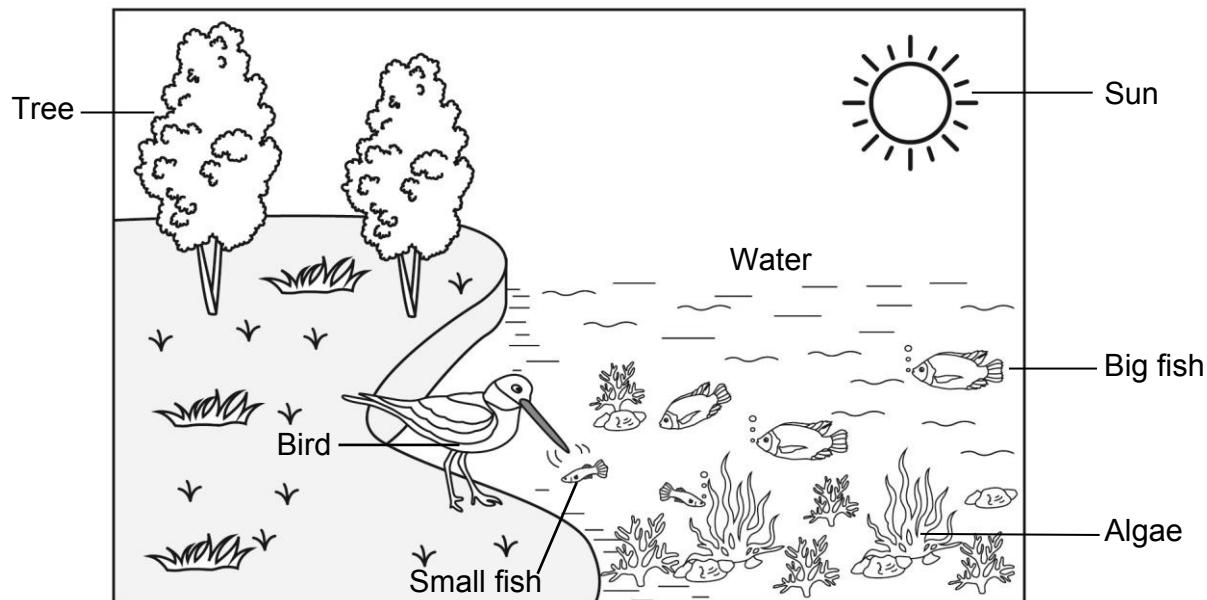
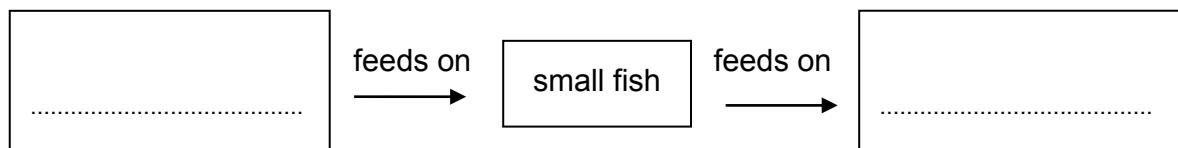


Diagram 9: An ecosystem

- (i) Fill in the blanks below to show how the living things in **Diagram 9** depend on each other to survive.



[2]

- (ii) Name one **non-living thing** on which the bird depends to survive.

[1]

(b) Forests are important ecosystems.

(i) Complete the following sentences.

Forests help to maintain the oxygen–carbon dioxide cycle.

During the process of , all living things take in
oxygen and release carbon dioxide.

[1]

During the process of , plants take in carbon dioxide
and release oxygen in the presence of water and sunlight.

[1]

(ii) Give **another** way in which forest ecosystems are important to animals.

..... [1]

(iii) Give one way how forest ecosystems can be conserved.

..... [1]

END OF PAPER

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