



*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
2021-2022

Time: 1 hour

Total Marks: 50

INSTRUCTIONS TO CANDIDATES

1. Check that this assessment booklet contains **5** 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						
Total						
Sig (HoG)						

Question 1 (5 marks)

Circle the correct answer. Each item carries one mark.

- (a) **Diagram 1** shows a set of human teeth.

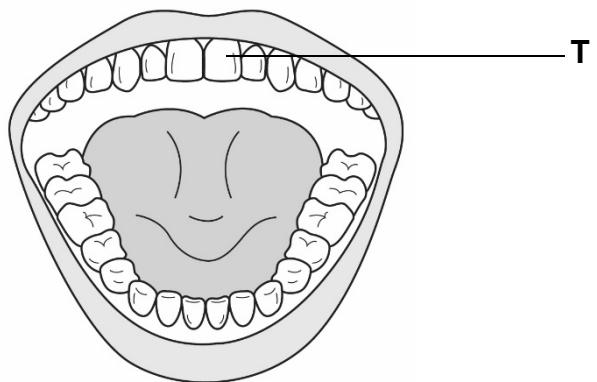


Diagram 1

What is Tooth T called?

- A** A canine
- B** An incisor
- C** A molar
- D** A pre-molar

- (b) Which one of the following gases is used to put out fires?

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

(c) Which one of the following meals is a balanced meal?

- A bread, fish, lettuce
- B fish, red beans, rice
- C red beans, lettuce, carrots
- D red beans, fish, bread

(d) **Diagram 2** shows a suction cup stuck on a window pane.

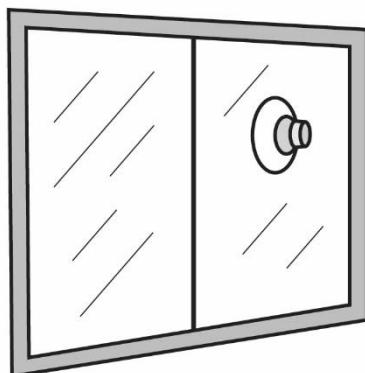


Diagram 2

Which one of the following statements is true?

- A Air pressure inside the suction cup is greater than air pressure outside it.
- B Air pressure inside the suction cup is the same as air pressure outside it.
- C Air pressure inside the suction cup is less than air pressure outside the it.
- D There is no air pressure outside the suction cup.

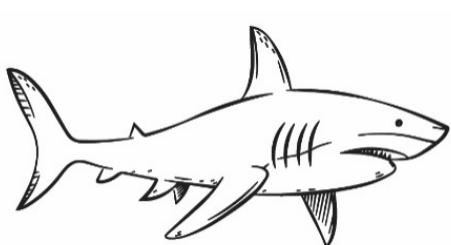
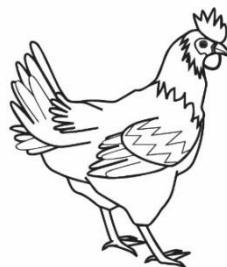
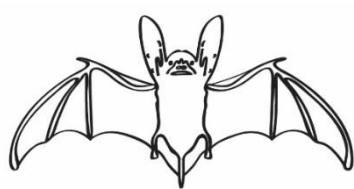
(e) What causes day and night on Earth?

- A The rotation of the Moon around the Earth.
- B The rotation of the Earth around the Sun.
- C The rotation of the Moon on its axis.
- D The rotation of the Earth on its axis.

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QUESTION 2 (14 marks)

- (a) **Diagram 3** shows three animals.

**A shark****A hen****A bat****Diagram 3**

- (i) In **Table 1** below, classify the animals shown in **Diagram 3** according to the group to which they belong.

Table 1

Group of animal	Bird	Mammal	Fish
Name of animal

[3]

- (ii) State the body cover of the

1. shark: [1]

2. hen: [1]

3. bat: [1]

- (iii) Give one similarity between the hen and the bat.

..... [1]

- (iv) Fish are aquatic animals.

What is an aquatic animal?

..... [1]

- (v) The dolphin is an aquatic animal but is **not** a fish.
To which group of animals does the dolphin belong?

.....

[1]

- (vi) Give a reason for your answer in part (a)(v).

.....

[1]

- (b) Study **Table 2** which shows the characteristics of an animal, **Animal Y**.

Table 2

Characteristic	Animal Y	
	Yes	No
Has wings	✓	
Lays eggs	✓	
Has feathers		✓
Has two pairs of legs		✓
Has three pairs of legs	✓	
Has a hard outer shell		✓

- (i) Which animal might **Animal Y** be? Tick (✓) the correct box.

A pigeon

A butterfly

A penguin

[1]

- (ii) To which group of animals does **Animal Y** belong?

.....

[1]

- (c) All living things reproduce.

Give two **other** characteristics of living things.

1.

2.

[2]

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QUESTION 3 (12 marks)

(a) Materials are obtained from different sources.

(i) Match each material in **Column A** to its source in **Column B**.

Column A	Column B
Silk	● From the earth
Iron	● From silica sand
Rubber	● From a plant
	● From an animal

[3]

(ii) Give one use of silk.

..... [1]

(b) **Diagram 4** shows a car.



Diagram 4

(i) One part of the car, **Part R**, is made of rubber.

Label **Part R** on **Diagram 4**.

[1]

- (ii) Name the material used to make the windshield.

.....

[1]

- (iii) Why is this material used to make windshields?

.....

[1]

- (iv) The body of the car is made of a **man-made** material.

Suggest a material that could have been used to make the body of the car.

.....

[1]

- (v) Give one reason why the body of the car must be painted.

.....

[1]

- (vi) The bumper of the car is made of plastic.

Plastic is an **easily available** and **cheap** material.

Suggest **another** reason why the bumper is made of plastic.

.....

[1]

- (c) (i) How is the dumping of plastic harmful to the environment?

Give one way.

.....

[1]

- (ii) Name the process by which used plastic is transformed into useful objects.

.....

[1]

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QUESTION 4 (9 marks)

- (a) **Diagram 5** shows a lit television set. Write down **three** forms of energy at the output of the television set in the spaces provided in **Diagram 5**.



Diagram 5

[3]

- (b) **Diagram 6** shows three different ways of producing electricity.

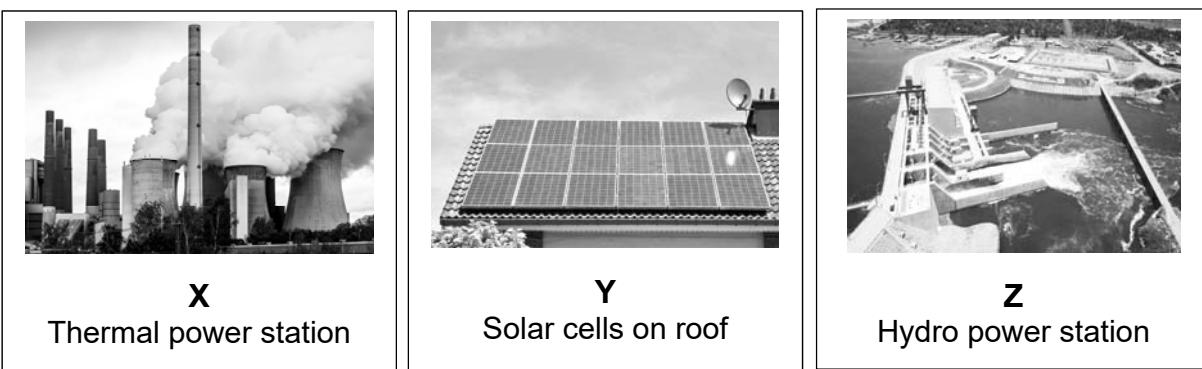


Diagram 6

- (i) **X** is a thermal power station.
Name a fuel that is used in thermal power stations.

.....

[1]

- (ii) What is the **form** of energy used by the solar cells shown in **Y**?

.....

[1]

- (iii) **Z** is a hydro power station.
Give one **advantage** of using hydro power stations to produce electricity.

.....

[1]

(c) Too much carbon dioxide in the air causes an increase in atmospheric temperature.

(i) What is the name given to this rise in temperature?

..... [1]

(ii) When ice caps at the poles melt, the sea level rises.
How does this affect people living near the sea?

..... [1]

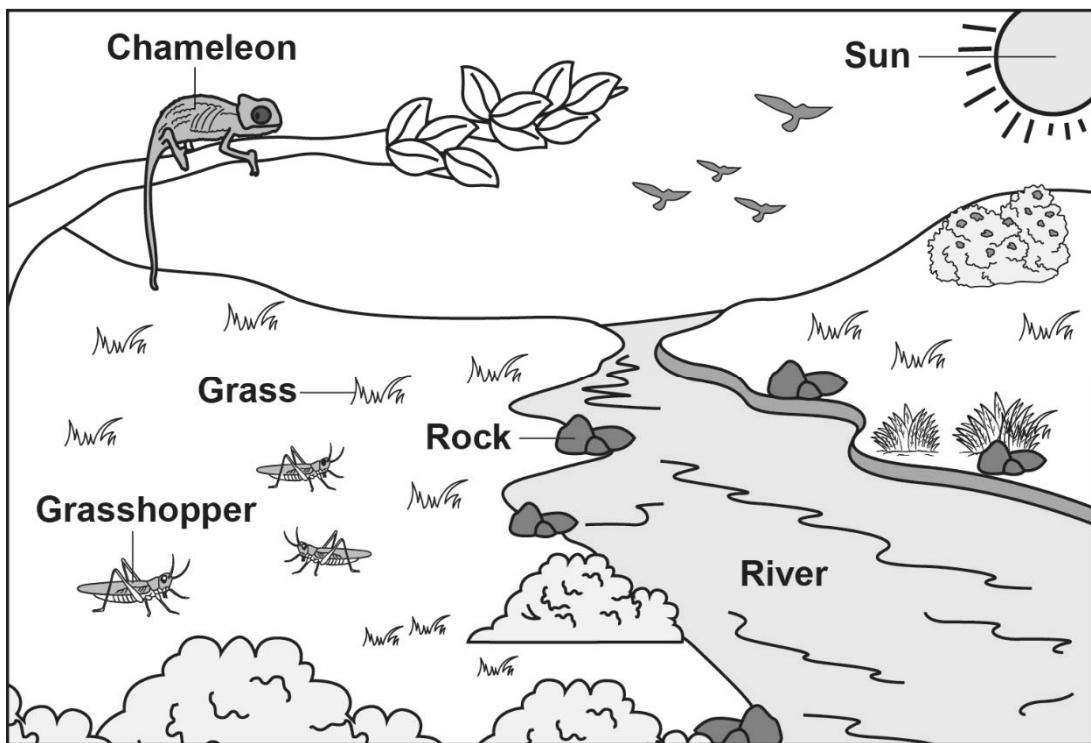
(iii) Suggest one measure to help reduce the amount of carbon dioxide released in the air.

..... [1]

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QUESTION 5 (10 marks)

Diagram 7 shows an ecosystem.

**Diagram 7**

- (a) What is an ecosystem?

.....

[1]

- (b) Give one example of a non-living thing which living things depend on to survive.

.....

[1]

- (c) (i) Name the process by which a plant manufactures its food.

.....

[1]

- (ii) Complete the sentence below to describe the process you mentioned in part c(i).

Green leaves use and carbon dioxide

in the presence of to make food. [2]

- (d) How can we protect the ecosystem shown in **Diagram 7**?

.....

[1]

- (e) Using **Diagram 7**, complete the boxes below.



[2]

- (f) The grasshoppers are removed from the ecosystem shown in **Diagram 7**. What happens to:

(i) the chameleon?

(ii) the grass?

[2]

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