



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

SCIENCE

(Subject code No. P141/3)

Index Number:

MAURITIUS EXAMINATIONS SYNDICATE
 Primary School Achievement Certificate Assessment
 Grade 6
 2024
 Time: 1 hour 45 Minutes Total Marks: 100

INSTRUCTIONS TO CANDIDATES

1. Check that this assessment booklet contains **9** questions printed on **20** pages numbered 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 and 21.
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						
7						
8						
9						
Total						
Sig (HoG)						

Question 1 (10 marks)

Circle the correct answer. Each item carries one mark.

(a) **Diagram 1** shows a thermometer. What is the temperature shown?

- A 30 °C
- B 32 °C
- C 33 °C
- D 34 °C

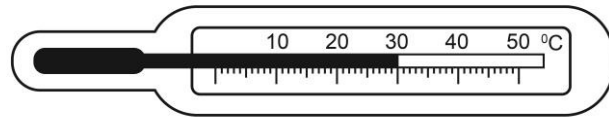


Diagram 1: A thermometer

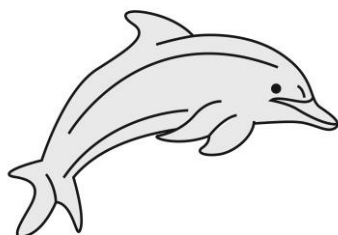
(b) Which of the following animals lives on a web?

- A Scorpion
- B Butterfly
- C Ant
- D Spider

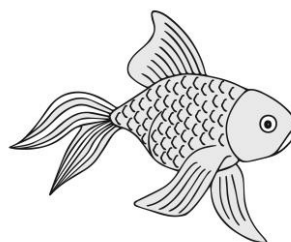
(c) Which of the following is a **fossil fuel**?

- A Bagasse
- B Petrol
- C Wax
- D Wood

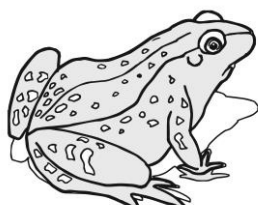
(d) Which of the following animals has **gills**?



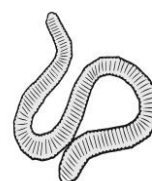
A A dolphin



B A fish



C A frog



D A worm

(e) Which gas is **most abundant** in **dry air**?

A Carbon Dioxide

B Oxygen

C Nitrogen

D Water Vapour

(f) **Diagram 2** shows oil on fire in a pan.

Which of the following is the **most** appropriate way of putting out the fire?

A Cover the pan with a metal lid.

B Increase the gas supply.

C Pour water on the pan.

D Throw a blanket on the pan.

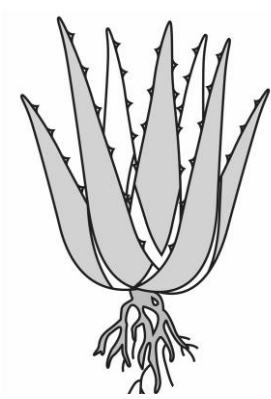


Diagram 2: Oil on fire in a pan

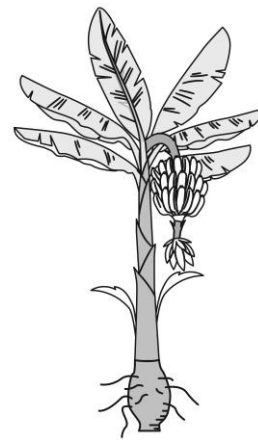
(g) Which of the following is a **root vegetable**?

- A Beans
- B Carrots
- C Parsley
- D Pumpkin

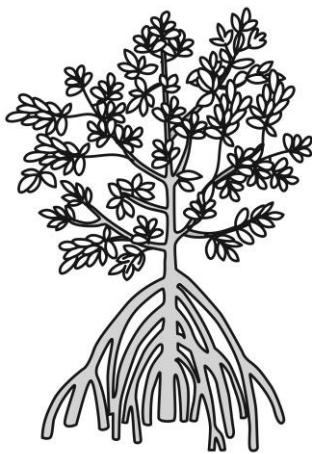
(h) Which one of the following plants grows mainly in wetlands?



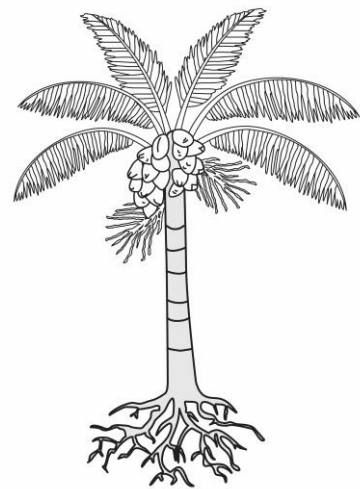
A Aloe Vera



B Banana plant



C Mangroves



D Coconut plant

(i) Which material is obtained from **latex**?

- A** Cotton
- B** Paper
- C** Rubber
- D** Silk

(j) Which of the following shows the correct sequence in the **germination** of a seed?

- A** seed → root → leaf → shoot
- B** seed → shoot → leaf → root
- C** seed → shoot → root → leaf
- D** seed → root → shoot → leaf

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Question 2 (12 marks)

(a) **Diagram 3** shows water in its three states.

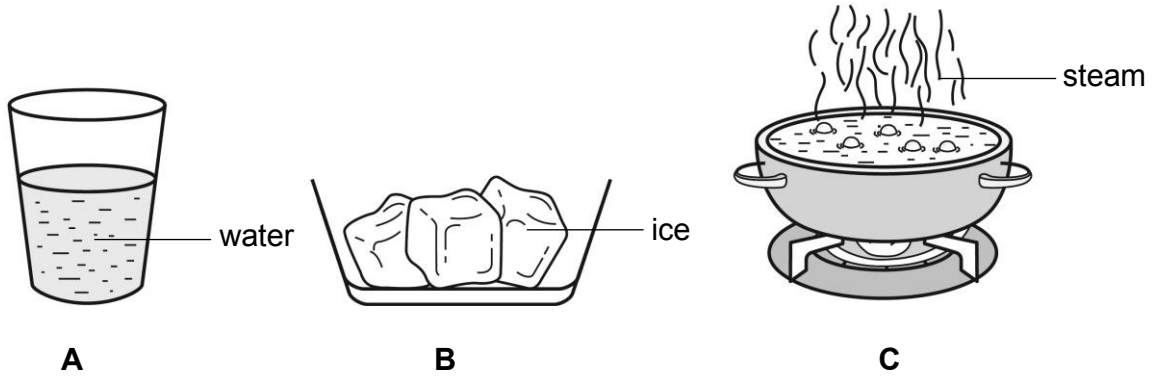


Diagram 3: States of water

(i) Write down the state of water in each of the following:

A - Water : state

B - Ice : state

C - Steam : state

[3]

(ii) At which temperature does water change into ice? Tick (✓) the correct answer.

100 °C 23 °C 0 °C

[1]

(iii) Apart from being a solid, state **another** property of ice.

.....

[1]

(iv) What should happen to the **temperature** for water to change into ice?
Tick (✓) the correct answer.

- The temperature should increase.
- The temperature should stay the same.
- The temperature should decrease.

[1]

(v) Give one use of water.

.....

[1]

(b) Rico places some water in a transparent glass.

He marks the water level on the glass.

He then places the glass in the sun as shown in **Diagram 4A**.

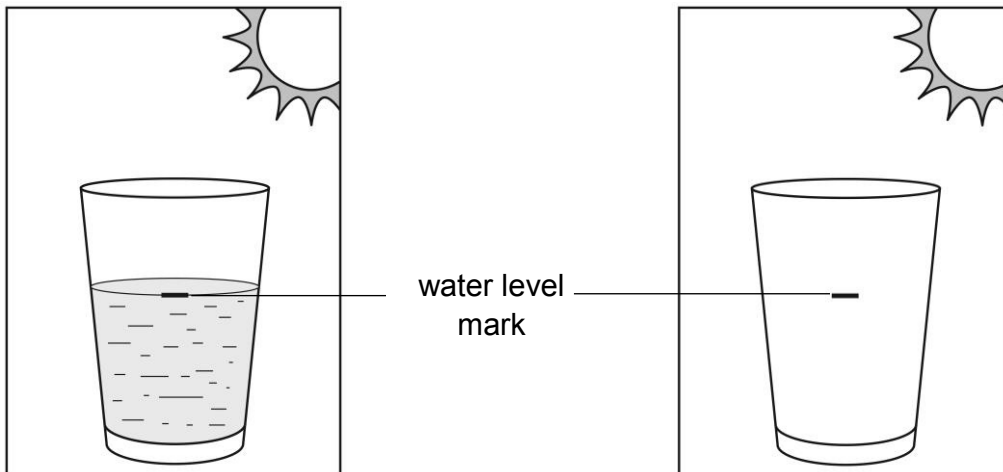


Diagram 4A

Diagram 4B

(i) Why does Rico use a transparent glass?

.....
.....

[1]

(ii) On **Diagram 4B**, draw the amount of water in the glass after some time.

[1]

(c) **Diagram 5** shows some salt pans in Black River.



Diagram 5: Salt pans

(i) Name the process by which salt is obtained in salt pans.

..... [1]

(ii) Give **another** daily use of the process in (c) (i).

..... [1]

(iii) Why are salt pans found in Black River?

..... [1]

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Question 3 (12 marks)

(a) **Diagram 6** shows a balanced meal.

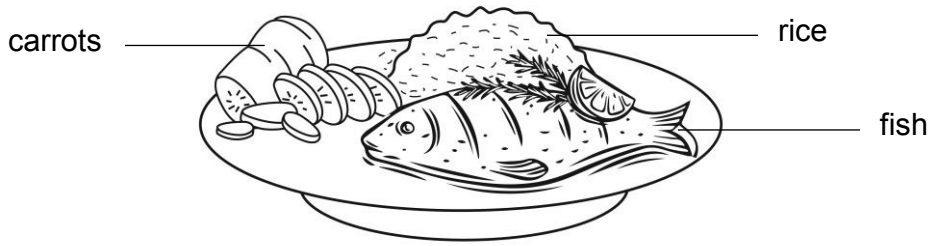


Diagram 6: A balanced meal

(i) In **Table 1**, classify each food item shown in **Diagram 6** according to the food group to which it belongs.

Table 1

Food Item	Food Group
Carrots	Food for
Fish	Food for
Rice	Food for

[3]

(ii) Why must we eat balanced meals?

..... [1]

(iii) Anand is vegetarian. Which food item in **Diagram 6** does not form part of Anand's meal?

..... [1]

(b) Name one food item that a baby must take regularly to grow well.

..... [1]

(c) What **form** of energy is stored in food?

..... [1]

(d) **Diagram 7** shows the mouth of a child. It has a set of **20 teeth**.

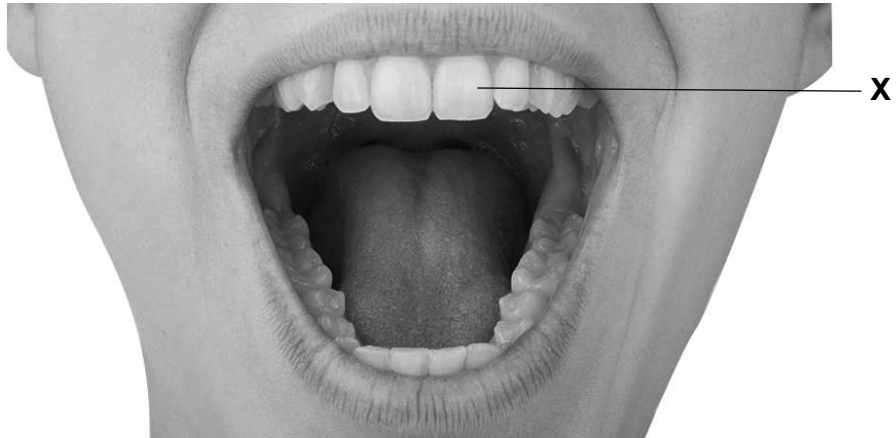


Diagram 7: Mouth of a child

(i) How is the set of teeth shown in **Diagram 7** called?

.....

[1]

(ii) Which tooth is **tooth X**? Tick (✓) the correct box.

Molar Canine Incisor Pre-molar

[1]

(iii) What is **tooth X** used for?

.....

[1]

(iv) Give two ways in which you can take good care of your teeth.

1.

2.

[2]

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Question 4 (7 marks)

(a) What is an **extinct** bird?

..... [1]

(b) **Diagram 8** shows some birds.



Dodo



Echo parakeet



Sparrow



Cardinal jaune

Diagram 8: Some birds

Which of the birds is

(i) exotic to Mauritius? :

(ii) extinct? :

(iii) endemic to Rodrigues? :

(iv) endemic to Mauritius? :

[4]

(c) Give two ways how rare birds are protected.

.....

.....

[2]

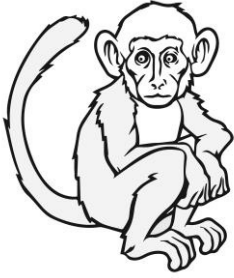
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Question 5 (11 marks)

(a) Match each animal in **Column A** to the group of animals it belongs to in **Column B**.

Column A

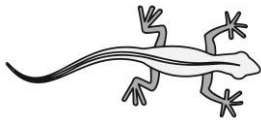
Column B



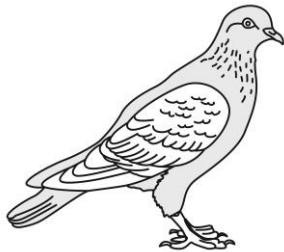
A monkey



An ant



A lizard



A pigeon

•

•

•

•

• Bird

• Mammal

• Amphibian

• Insect

• Reptile

[4]

(b) Give one specific characteristic of insects.
..... [1]

(c) (i) Animals live in their natural habitats.
Give one importance of natural habitats to animals.
..... [1]

(ii) Name the natural habitat of the **camel**.
..... [1]

(iii) Name a plant that lives in the **same habitat** as the camel.
..... [1]

(d) Name a mammal that can fly.
..... [1]

(e) How are mammals and birds different in the way they **reproduce**?
Mammals: [1]

Birds: [1]

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Question 6 (12 marks)

(a) **Diagram 9** shows the different parts of a tomato plant.

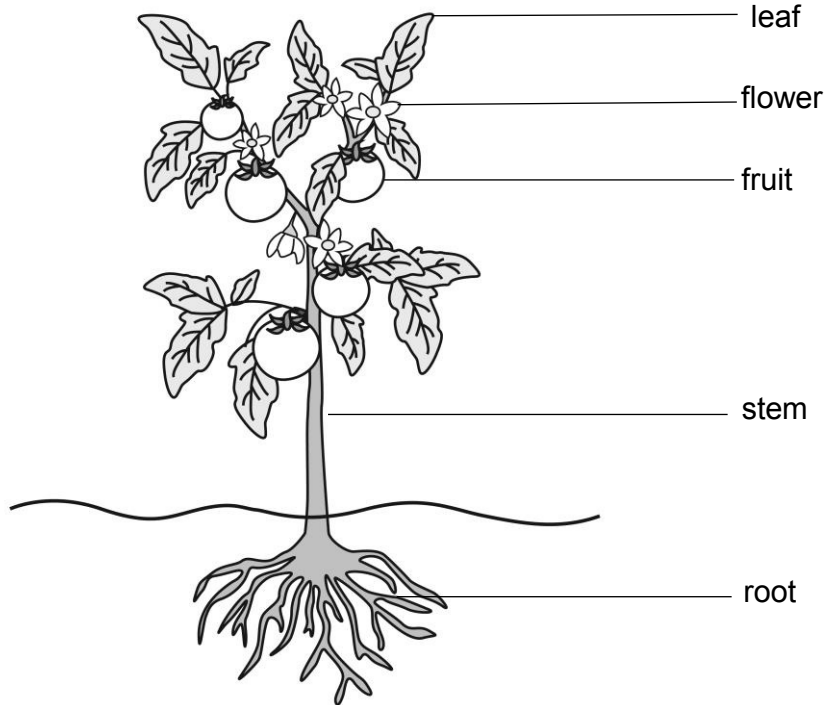


Diagram 9: Parts of a tomato plant

(i) Which part of the tomato plant

1. contains the seeds? [1]

2. contains chlorophyll? [1]

3. contains the male and the female parts? [1]

4. takes water from the soil? [1]

(ii) Give one function of the leaves.

..... [1]

(b) **Diagram 10A** shows a small potted bean plant.

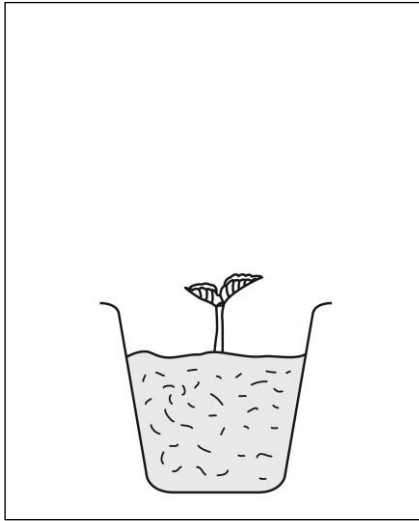


Diagram 10A

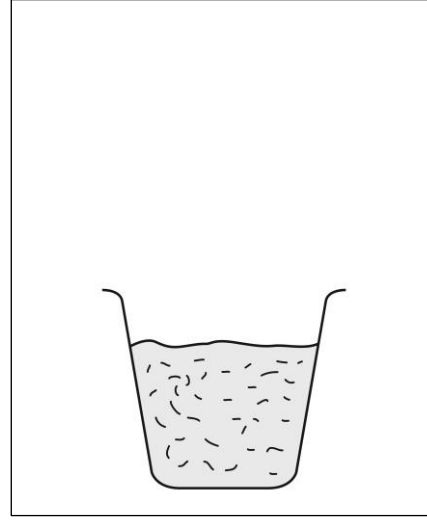


Diagram 10B

(i) Give two conditions necessary for the bean plant to grow well.

- 1.
- 2.

[2]

(ii) All the necessary conditions needed for the bean plant to grow well is provided.

In **Diagram 10B**, draw the bean plant one week later.

[2]

(c) (i) What is pollination?

.....

[1]

(ii) Name an insect that pollinates flowers.

.....

[1]

(iii) Give one way how flowers attract insects.

.....

[1]

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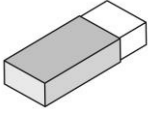
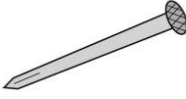

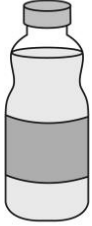
Question 7 (9 marks)

(a) Different types of materials are used to make different objects.

Complete **Table 2** to indicate which material from the given list is used to make each object.

leather cotton glass rubber iron

Table 2

Object	Material
 <p>Eraser</p>	<p>.....</p>
 <p>Nail</p>	<p>.....</p>
 <p>Mop</p>	<p>.....</p>
 <p>Bottle</p>	<p>.....</p>

[4]

(b) Which object in **Table 2** rusts easily?

.....

[1]

(c) Why is the mop made with the material you chose in **Table 2**?

.....

[1]

(d) Plastic is a man-made material.

(i) Give **another** example of a man-made material.

.....

[1]

(ii) Broken objects made of plastic must **not** be thrown in the environment.
Give one reason why.

.....

[1]

(iii) Name the process by which plastic objects are transformed into other useful objects.

.....

[1]

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Question 8 (12 marks)

(a) **Diagram 11** shows part of our solar system.

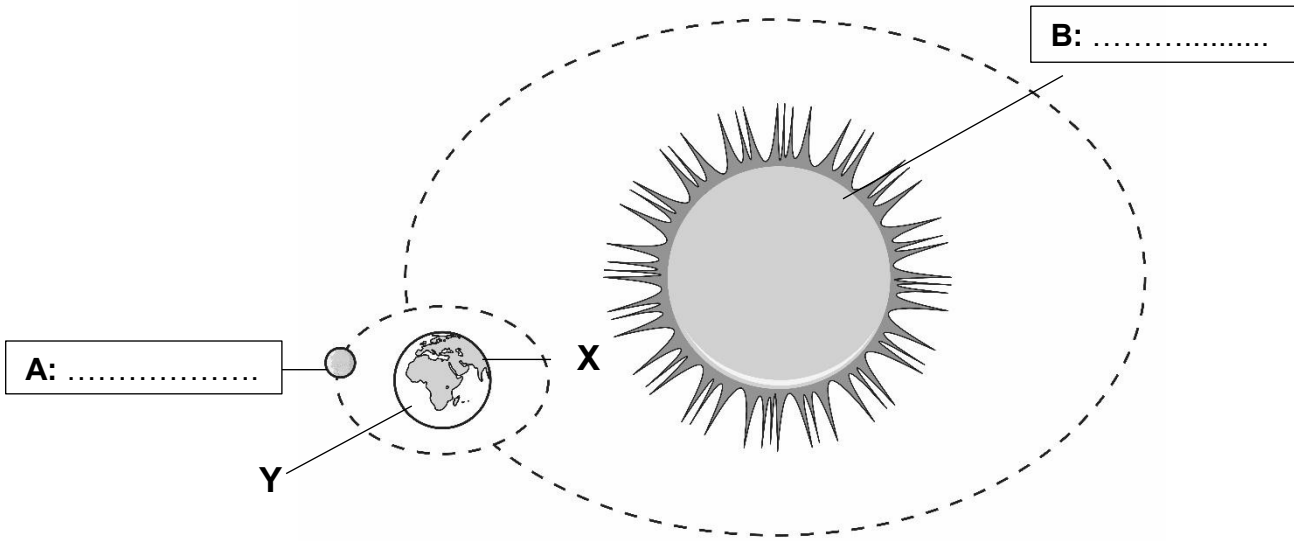


Diagram 11: Part of our solar system

(i) On **Diagram 11**, name **A** and **B**. [2]

(ii) Which part of the Earth shown in **Diagram 11** is in daylight, **X** or **Y**?

..... [1]

(iii) Explain your answer to part (a) (ii).

..... [1]

(iv) How much time does the Earth take to make one complete rotation around **B**?

Circle the correct answer.

One day **One month** **One year** [1]

(v) Give one reason why life is possible on planet Earth.

..... [1]

(b) Living things depend on each other to survive.

Explain how

(i) animals depend on plants.

..... [1]

(ii) plants depend on animals.

..... [1]

(c) **Diagram 12** shows a polluted area.

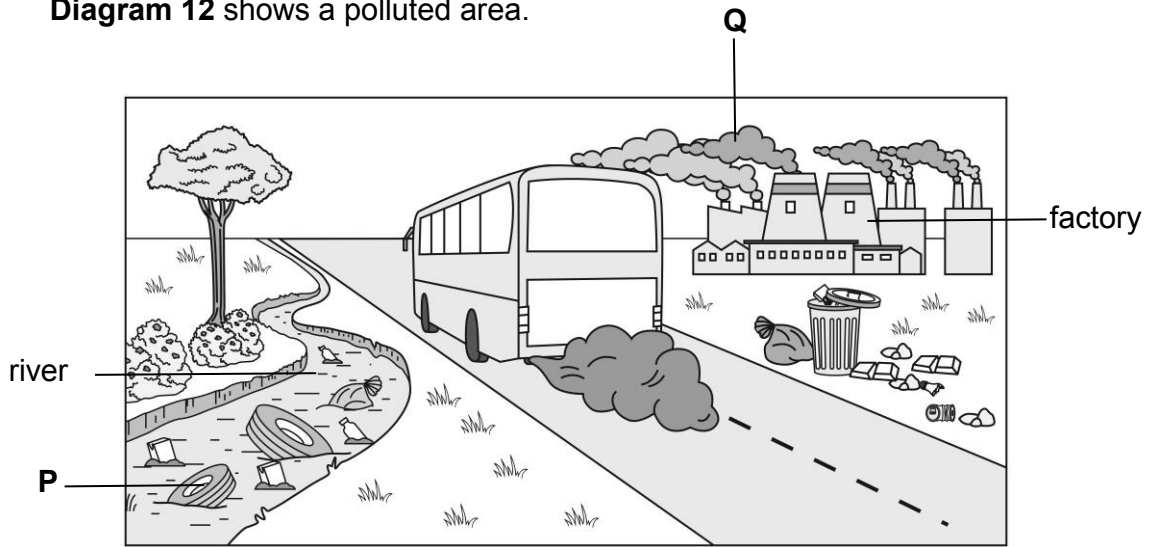


Diagram 12: A polluted area

(i) Name the type of pollution shown at

1. **P** : [1]

2. **Q** : [1]

(ii) Give one way how the pollution at **Q** is harmful

1. to the environment.

..... [1]

2. to people.

..... [1]

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Question 9 (15 marks)

(a) **Diagram 13** shows a power station.

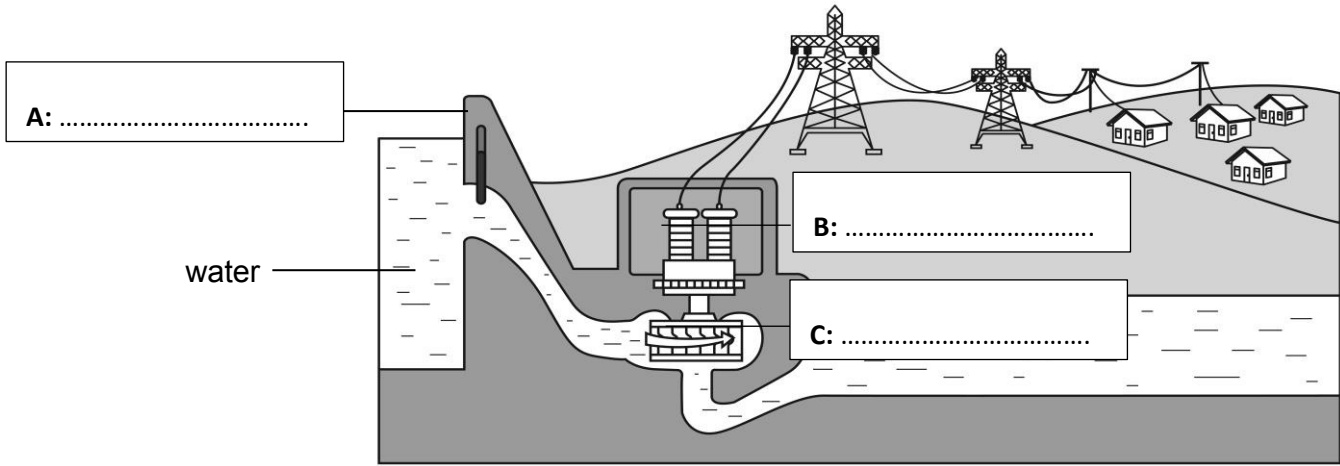


Diagram 13: A power station

(i) Name the type of power station shown in **Diagram 13**.

..... [1]

(ii) Label **Diagram 13** by filling in the empty boxes. Choose the correct word from the list below.

generator turbine dam reservoir [3]

(iii) What is the **source** of energy used by the power station?

..... [1]

(iv) What **form** of energy is used by the power station to produce electricity?

..... [1]

(v) How is the electricity produced in the power station brought to houses?

..... [1]

(vi) Give one **disadvantage** of using such power stations to produce electricity.

..... [1]

(b) **Diagram 14** shows an electric circuit connected to a fan.

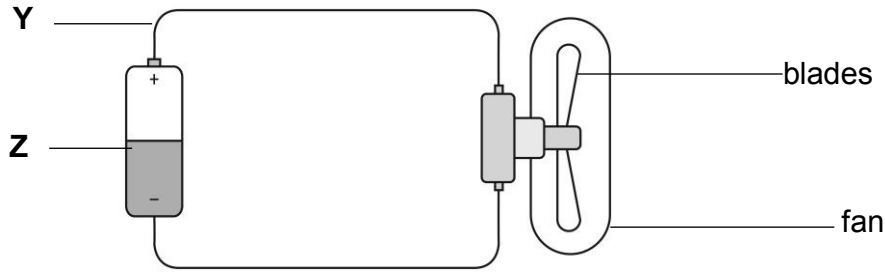


Diagram 14: An electric circuit

(i) Why do the blades of the fan in **Diagram 14** rotate?

..... [1]

(ii) Name electric components **Y** and **Z**.

1. **Y:** [1]

2. **Z:** [1]

(iii) Fill in the blanks to indicate the energy transformation that takes place in the circuit in **Diagram 14**.

..... energy stored in **Z** → electrical energy → energy in the fan

[2]

(iv) Suggest how the electric circuit in **Diagram 14** can be changed to increase the speed of the fan.

..... [1]

(v) Name an electric component that can be added to the circuit in **Diagram 14** to start and stop the fan.

..... [1]

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