



Index Number:	
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# **MAURITIUS EXAMINATIONS SYNDICATE**

## Primary School Achievement Certificate Assessment

Marchio 2021

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#### **INSTRUCTIONS TO CANDIDATES**

- **1.** Check that this assessment booklet contains **10** questions printed on **15** pages numbered 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,14, 15, and 16.
- **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	Markin	g	F	Revision	1		Control	
Question	Marks	Sig	Mar	rks	Sig	Ма	rks	Sig
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
Total								
Sig (HoG)								

## Question 1 (10 marks)

#### Circle the correct answer.

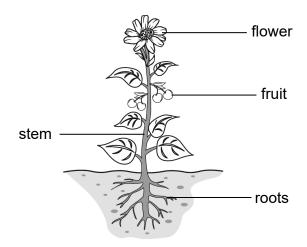
1.	At wh	nich temperature does pure water <b>freeze</b> ?		
	Α	0° C	С	70° C
	В	25° C	D	100° C
2.	Whic	h one of the following gases is present in the	greate	st amount in the atmosphere?
	Α	Carbon dioxide	С	Oxygen
	В	Nitrogen	D	Water vapour
3.	Why	are <b>leaves</b> important to plants?		
	A	They absorb the nutrients from the soil.		
	В	They attract insects.		
	С	They carry water to the other parts of the pla	nt.	
	D	They produce food for the plant.		
4.	By w	hich process does water vapour present in air	form o	louds?
	Α	Condensation	С	Freezing
	В	Evaporation	D	Melting
5.	Whic	h <b>one</b> of the following gases is needed for <b>a f</b>	ire to b	ourn?
	A	Carbon dioxide	С	Oxygen
	В	Nitrogen	D	Water vapour

6.	Whic	ch one of the following is a characteristic of <b>re</b>	ptiles?	
	Α	They have gills.	С	They have six legs.
	В	They have scales on their body.	D	They have a pair of wings.
7.	Whic	ch one of the following teeth is used to <b>tear</b> for	od?	
	A	Incisors	С	Premolars
	В	Canines	D	Molars
8.		th one of the following sources of energy is us ricity in Mauritius?	sed by	sugarcane factories to produce
	Α	Bagasse	С	Water
	В	Charcoal	D	Wind
9.	Diag	ram 1 shows an electric kettle.		
	Whic	ch energy transformation takes place when w	ater is b	poiled in this kettle?
	A	Chemical energy to light energy		
	В	Heat energy to chemical energy	Y	
	С	Electrical energy to heat energy		
	D	Light energy to electrical energy	Diag	gram 1: An electric kettle
10.	Whic	th one of the following explains why it is <b>unsa</b> ing?	<b>ife</b> to us	se a plastic spoon while
	Α	Plastic conducts electricity.	С	Plastic conducts heat.
	В	Plastic may damage the pot.	D	Plastic can melt in the pot.

## Question 2 (7 marks)

**Part** 

(a) **Diagram 2** shows a flowering plant.



**Diagram 2:** A flowering plant

**Function** 

Match each labelled part to its function in the plant.

	Flower		Holds the plant upright.	
	Fruit		Absorb water and anchor the plant.	
	Stem		Contains the male and female parts.	
	Roots		Manufactures food for the plant.	
		•	Protects the seeds as they develop.	
				[4]
(b)	Name the	e green substance in plants	necessary for photosynthesis.	
				[1]
	<b>.</b> .			
(c)	Give two	causes of soil erosion.		

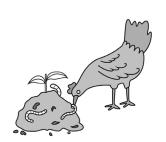
### Question 3 (10 marks)

(a) Name the natural habitat of each of the following animals. An example is given.

Animal	Habitat
Bat	Cave
Worm	
Camel	
Whale	
Kestrel	
Wild pig	

[5]

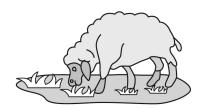
(b) **Diagram 3** shows three animals eating.



A hen eating grains and worms



A lion eating meat



A sheep eating grass

Diagram 3: Animals eating

(i) Use the appropriate word given below to classify the three animals shown in **Diagram 3**.

	Carnivore	Herbivore	Omnivore	Granivore
Hen:		· · · · · · · · · · · · · · · · · · ·		
Lion:		· · · · · · · · · · · · · · · · · · ·		
Sheep:				

[3]

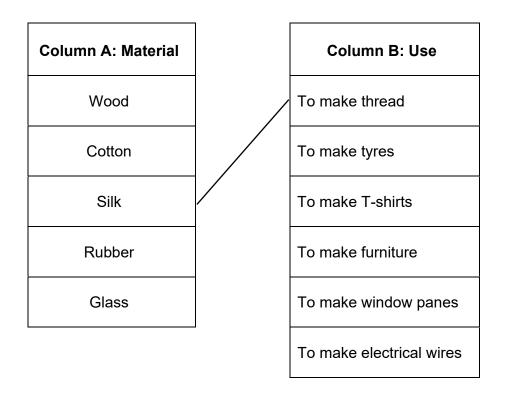
	(ii)	•		n have different char the hen and the lion		<b>/</b> 0
		1				
		2				
						[2
Que	estio	n 4 (10 marks)				
(a)	Com belo	nplete each of the follow.	owing sentences by	using the appropriate	e word from the list	
		spices	carbon dioxide	cae	ctus	
		oxygen		mangrove	pollen	
	(i)	The male parts of pl	ants contain	·		
	(ii)	Plants are used as _		to give flavour	and taste to food.	
	(iii)		·		and release	
	(iv)	The		vell in deserts wherea	as the	
			grows well i	n wetlands.		[6]
(b)		e <b>two reasons</b> why fo				[~]
	1					
	2		<del></del>			
(c)	Give	e <b>two measures</b> that	the Government ha	s taken to protect our	rare birds.	[2]
	1					
	2.		<del>-</del>			
						[2]

## Question 5 (13 marks)

,			
(i)	name the three food groups	S.	
(ii)	classify the food items in R	obin's breakfast under each	food group.
	Food for	Food for	Food for
(i)	Is Robin's breakfast a balan	ced meal?	
(')		ood modi.	
,			
(II)	Explain the answer you gav	e in part (b)(i).	
Ξхр	olain why it is important to ha	ve a balanced diet.	
	body uses food and oxygen	to produce energy.	
Dur			

### Question 6 (10 marks)

(a) Match each material in column **A** to its most appropriate use in column **B**. An example is given.



[4]

- (b) Name a metal which is used
  - (i) to make precious jewellery:
  - (ii) for constructing airplanes: \_\_\_\_\_
  - (iii) to make kitchen utensils:

[3]

[2]

(c) **Diagram 4** shows two similar iron nails in two different tubes.

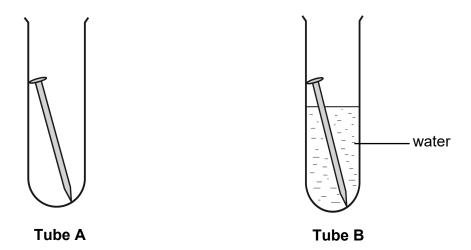


Diagram 4: Nails in tubes A and B

(i)	Why will the iron nail in <b>Tube B</b> rust more rapidly than the one in <b>Tube A</b> ?	
		_ [1]
(ii)	Give two ways how you can prevent the iron nail in <b>Tube A</b> from rusting.	
	1	_

### Question 7 (10 marks)

(a) The sentences below describe the process of generating electricity in a thermal power station.

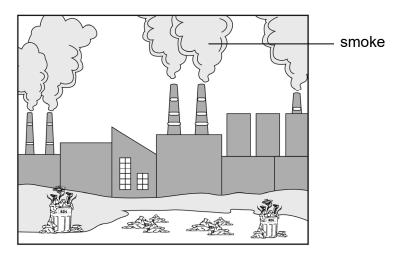
Order the different processes in electrical production by numbering the given sentences.

The first one has been done for you.

	Heat is used to boil water.
	The turbines generate electricity
1	Fuel is burnt to generate heat.
	Steam turns the turbine

[3]

(b) **Diagram 5** shows a power station and its surrounding area.



**Diagram 5:** Power station and its surroundings

	Name the type of pollution caused by the <b>smoke</b> .
-	
I	Explain how pollution caused by smoke can be <b>reduced</b> .
-	

[1]

	(iii)	Name two <b>renewable</b> sources of energy which will <b>not</b> cause the type of pollution in part <b>(b)(i)</b> .		
		1		
		2	[2]	
(c)	(i)	From where are fossil fuels obtained?		
			[1]	
	(ii)	Name one fossil fuel that the power station in <b>Diagram 5</b> could use to produce electricity.		
			[1]	
	(iii)	Give one advantage of using fossil fuels to produce electricity.		

### Question 8 (9 marks)

(a) **Diagram 6** shows **Jar A** and **Jar B** which are placed on a table in a classroom.

**Jar A** contains water at room temperature.

Jar B contains ice.

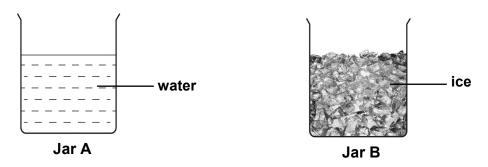
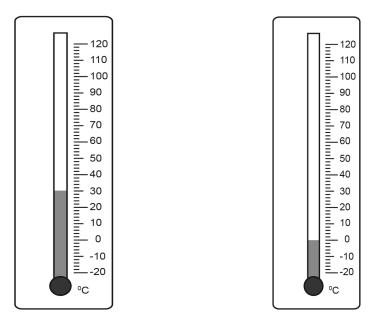


Diagram 6: Jars A and B

A thermometer is placed in each jar to measure the temperature.

### **Diagram 7** shows the thermometers recorded in jars **A** and **B**.



Thermometer in Jar A

Thermometer in Jar B

Diagram 7: Thermometers placed in jars A and B

(i)	Read and record the temperature in <b>Jar A</b> and <b>Jar B</b> .	
	Temperature in <b>Jar A</b> = °C	
	Temperature in <b>Jar B</b> = °C	[2]
(ii)	What will happen to the ice in <b>Jar B</b> after about 15 minutes?	[1]
(iii)	Suggest a temperature in <b>Jar B</b> after about 15 minutes.	[1]
(b)	State <b>two</b> properties of ice.  1	
	2	[2]

[1]

(c) Tom measures the temperature of air in the school ground from 9 a.m. to 3 p.m.

His results are shown in the table below.

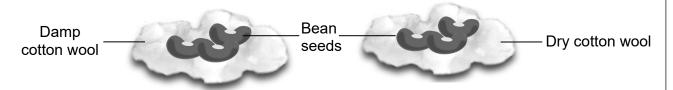
Time	9 a.m.	10 a.m.	11 a.m.	12 p.m.	1 p.m.	2 p.m.	3 p.m.
Temperature	20°C	19°C	22°C	24°C	25°C	27°C	25°C

(i) At what time was the air temperature <b>highest</b> ?	[1]
	ניז
(ii) At what time was the air temperature <b>lowest</b> ?	
· · · · · · · · · · · · · · · · · · ·	[1]
(iii) Suggest what could have caused the decrease in temperature a	10 a.m.

#### **Question 9 (11 marks)**

Devina is investigating one of the conditions necessary for the germination of bean seeds.

She places 3 bean seeds in damp cotton wool and 3 bean seeds in dry cotton wool as shown in **Diagrams 8A** and **8B**.



**Diagram 8A:** Bean seeds in damp cotton wool

**Diagram 8B:** Bean seeds in dry cotton wool

She makes sure that the cotton wool in **Diagram 8A** remains damp.

Her results are found in the following table.

	Number of seeds which germinated
In damp cotton wool	2
In dry cotton wool	0

en the				
Name <b>two other</b> conditions necessary for the germination of seeds.  1				

### Question 10 (10 marks)

- (a) (i) A device that is used to open or close an electric circuit is called a \_\_\_\_\_.
  - (ii) A dry cell has \_\_\_\_\_ ends.

[2]

[2]

(b) Diagram 9 shows an electric circuit.

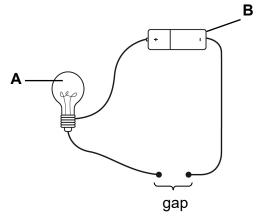


Diagram 9: Electric circuit

(i) Is the circuit open or closed? Explain your answer.

\_\_\_\_\_

\_\_\_\_\_\_[2]

(ii) Name components **A** and **B** of the electric circuit.

**A**: \_\_\_\_\_

B: \_\_\_\_\_

(iii) Which metal is used inside electrical wires?

\_\_\_\_\_\_[1]

(iv) **Diagram 10** shows a screwdriver which has been placed in the gap.

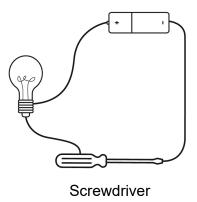


Diagram 10: Electric circuit with screwdriver

1.	Which material is <b>usually</b> used to make <b>handles</b> of screwdrivers?	
	<del></del>	[1]
2.	Give a reason why this material is suitable to make handles of screwdrivers.	[1]
3.	Why will the bulb <b>not</b> light up in the circuit in <b>Diagram 10</b> ?	
		[1







