

Cambridge Assessment International Education

Cambridge Primary Checkpoint

CANDIDATE NAME					
CENTRE NUMBER				CANDIDATE NUMBER	
SCIENCE					0846/02
Paper 2					April 2019
					45 minutes
Candidates answ	ver on the	e Question	Paper.		
Additional Materi		Pen Pencil Ruler		Calculator	

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page. Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer all questions.

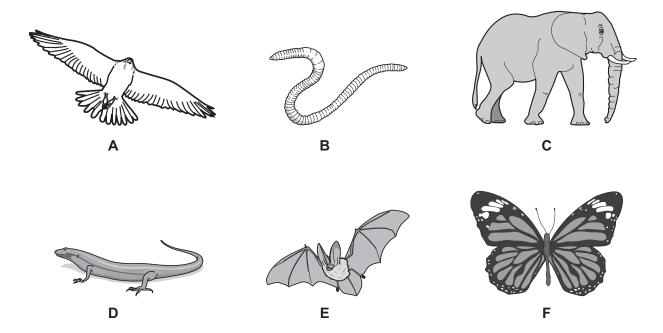
The number of marks is given in brackets [] at the end of each question or part question.

You should show all your working in the booklet.

The total number of marks for this paper is 50.



1 Living things can be sorted into groups.



(a) Put the living things into groups.

Three have been done for you.

group 1	group 2
Α	D
F	

ſ	1	1
L		4

(b) Which feature is being used to sort the living things into these groups?

[1]

2 Look at the picture of a swan floating on water.



Which word describes why it looks like there are two swans in the picture?

Circle the correct answer.

intensity	opaque	reflection	shadow	transparent	
-					[1]

3 Humans do good things and bad things to the environment.

Tick (\checkmark) one **bad** thing humans do to the environment.

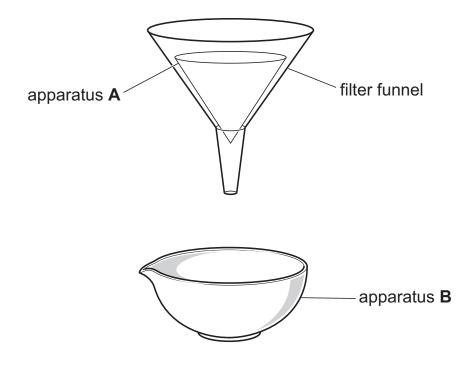
cause loss of species	
plant forests	
protect habitats	
reduce waste	
stop people killing animals	

[1]

4 Carlos has a mixture of sand, salt and water.

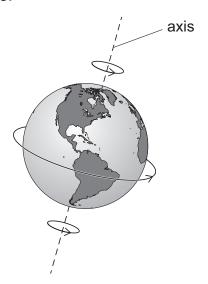
He wants to separate the mixture.

Here is some of the apparatus that Carlos uses.



(a)	What is the name of apparatus A ?	
		[1]
(b)	What is the name of apparatus B ?	
		[1]
(c)	Explain how you separate the mixture of sand, salt and water.	
		••••

5 The Earth spins on its axis.



(a) How many times does the Earth spin on its axis in 24 days?

Circle the correct answer.

1	12	24	48	365
-				

[1]

(b) What do the arrows on the diagram show?

	[1]

6 Cups for hot drinks are often made from foam plastic.



One reason why foam plastic is used is because it does **not** dissolve.

Write two **other** reasons why foam plastic is used to make a cup for hot drinks.

1	
_	
2	

[2]

7 Look at the information about the length of intestines in different animals.

animal	length of intestines in m
Α	30.0
В	57.1
С	4.8
D	32.7
E	24.9

Circle the correct answer.

in the abdomen

in the chest

in the head

in the legs

in the stomach

[1]

ĺ	h)	Which	animal	dο	VOL	predict	is	the	smalle	est?
۱	N)	V V I II C I I	arıllılar	uU	you	predict	13	เมเต	Sillalit	ょうし :

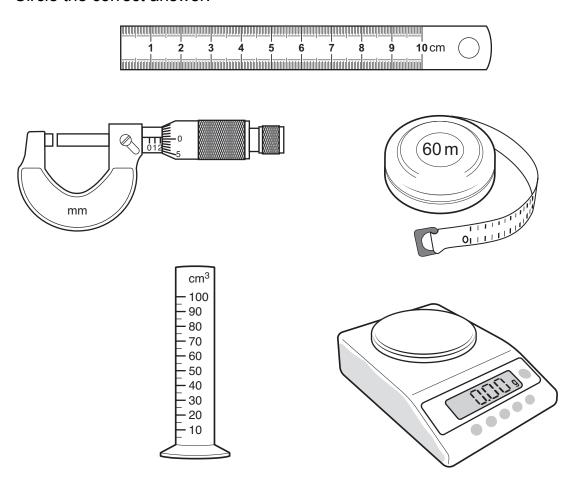
Complete the sentences.

I predict that animal _____is the smallest.

I predict this because

[1]

(c) Which apparatus measures the length of the intestines of animal **B**? Circle the correct answer.



[1]

8 Blessy investigates some colourless liquids.

She boils the liquids for 15 minutes.

Look at her results.

liquid	temperature of boiling liquid in [°] C	other observations	
A 107		liquid completely disappears	
B 104		liquid disappears and leaves behind a white solid	
С	100	liquid completely disappears	
D	65	liquid completely disappears	
E	160	liquid completely disappears	

(a)	What is the name of the apparatus Blessy uses to measure the temperature	?
		[1]
(b)	Blessy must be careful doing the experiment since the liquids may be flammable.	
	Explain why Blessy must be careful.	
		[1]
(c)	Describe what happens to a liquid when it boils.	
		[1]
(d)	One of the liquids is pure water.	
	Which one?	
	Explain your answer.	
		[41
		[1]

	9	
	(e) One of the liquids is a solution.	
	Which one?	
	Explain your answer.	
		[1]
9	Lily investigates seed dispersal.	
	seeds — T T T T T T T T T T T T T T T T T T	
	Lily	
	Lily puts seeds in the funnel.	
	She blows through the tube.	
	(a) Which type of seed dispersal is she investigating?	[1]
	(b) Lily repeats the investigation with different seeds.	
	Describe two things she keeps the same to make it a fair test.	

1 _____

2

[2]

10 (a) Draw a line from the measurement to the correct unit.

You can draw a line to each unit once, more than once, or not at all.

measurement	unit
	kilogram
force	
	kilometre
mass	
	litre
weight	
	newton

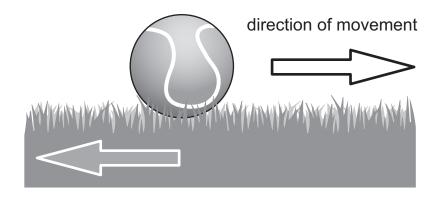
[2]

(b) This piece of apparatus is being used to measure a force.



What is the name of this piece of apparatus?	
	[1]

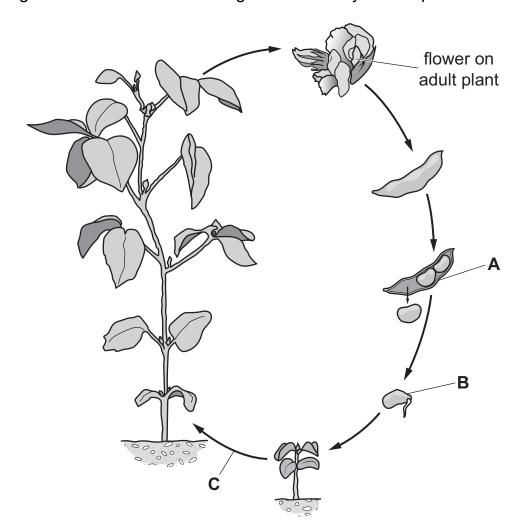
(c) This ball is moving across the grass.



Label the arrow with the name of the force slowing the ball's movement.

[1]

11 The diagram shows some of the stages in the life cycle of a plant.

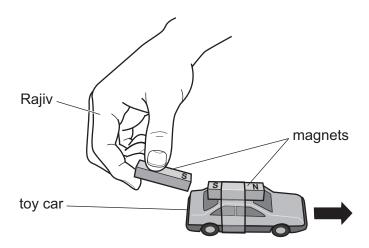


Draw a line to match each **label** with the **description** it shows.

label	description
	fertilisation
Α	
	germination
В	growth
	pollination
С	
	seed dispersal

12	Rajiv	has	two	magnets.

- he sticks one magnet to his toy car
- he holds the other magnet
- the toy car moves



The arrow shows the direction the car moves.

(a) What happens between the two magnets?Circle the correct answer.

a force of attraction
a force of repulsion
a negative force
a positive force

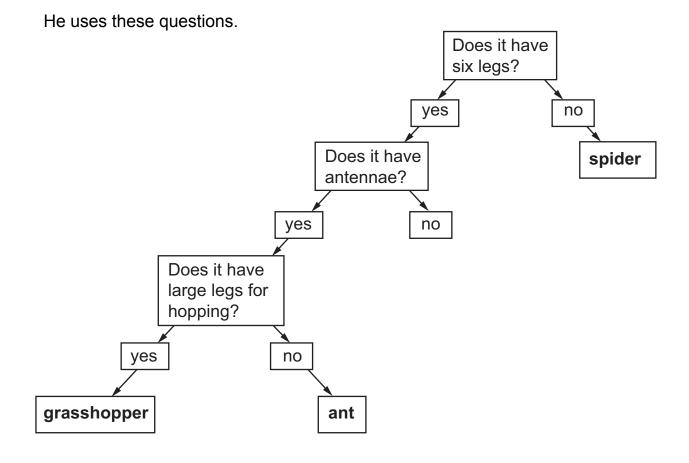
there is no force

[1]

(b) Rajiv wants to make the toy car move in the opposite direction.

Describe what Rajiv does to the magnet in his hand.

13 Oliver wants to know what different organisms are called.



Complete the sentence.

Oliver finds out what animals are called by using this identification

Circle the correct answer.

chart key table graph results [1]

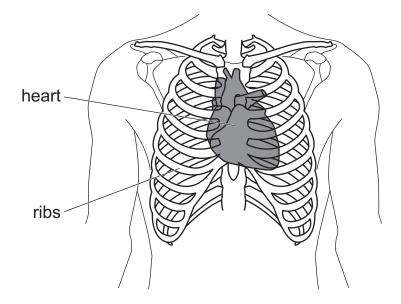
14 Sound travels through some materials faster than others.

The table shows the speed of sound in different materials.

material	speed of sound in m/s		
Α	330		
В	984		
С	5890		
D	4689		
E	1479		

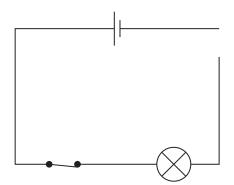
(a)	What is the difference between the speed of sound in material C and material D ?						
	Circle t	he correct ar	iswer.				
		1199	1201	1211	1219	1910	[1]
(b)				ases than so	lids or liquids	S.	
	Materia	ıl B is a liquid	1.				
	Which I	material in th	e table is air	?			
	Circle t	he correct ar	iswer.				
		Α	С	D	E		[1]
(c)	Describ	e what happ	ens to air pa	articles when	sound trave	ls through air.	
							[1]

The picture shows the position of the heart in the body.



(a)	What is the function of the heart?	
		 11
		L.
(b)	The heart is made of muscle.	
	What are the ribs made of?	
		[1
(c)	The ribs protect the heart.	
	Write down the name of one other organ protected by the ribs.	
		[1

16 Look at this electrical circuit.



Why does this electrical circuit **not** work?

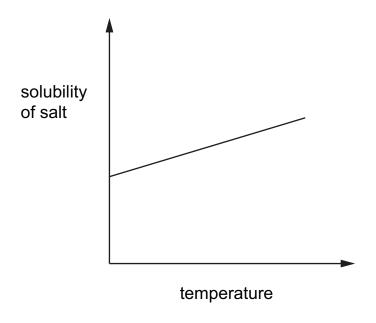
Tick (✓) one box.

the lamp is on the wrong side of the switch	
the switch is open	
there is no cell	
the circuit is not complete	

[1]

17 Rajiv investigates the solubility of some substances using the internet.

(a) He finds a line graph about the solubility of salt.

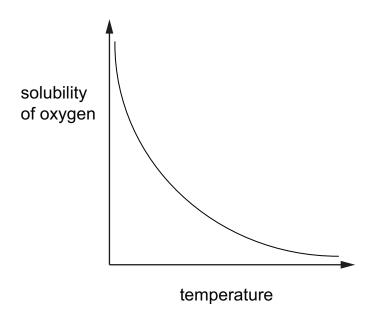


Daiiv	malcaa	_	conclusion
Rajiv	makes	а	conclusion.

Complete his conclusion.

As the temperature		the solubility of salt
		[1]
	. •	ניו

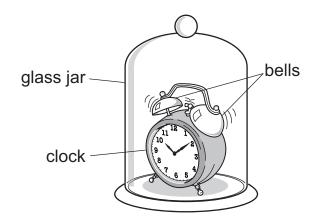
(b) He finds a line graph about the solubility of oxygen.



Rajiv makes a conclusion.	
Complete his conclusion.	
As the temperature	the solubility of oxygen
	[1]

18 Priya and Carlos investigate sound.

They put a clock with bells in a glass jar.



They listen to the sound made by the bells.

(a) What apparatus do they use to measure the volume of sound?

[1]

(b) Carlos measures the volume of sound.

Priya says

'We must measure the volume of sound more than once.'

Explain why they must measure the volume of sound more than once.

(c) Carlos writes down the results.

volume in decibels
62
61
62
68
61

Describe two things about the results.

1	
2	
	[2]

19 The ball has mass and weight.



(a) Circle the correct statement about the mass of the ball.

the mass is 0.45 cm²

the mass is 0.45 kg

the mass is 0.45 m

the mass is 4.5 N

the mass is 4.5 s

[1]

(b) Circle the correct statement about the weight of the ball.

the weight is 0.45 cm²

the weight is 0.45 kg

the weight is 0.45 m

the weight is 4.5 N

the weight is 4.5 s

[1]

20 Each of the following words is connected with dissolving.

Draw a line between the **word** and its correct **meaning**.

word	meaning
solute	a mixture of a dissolved solid and a liquid
solution	the liquid that dissolves a solid
solvent	the solid that dissolves in a liquid

[2]

24

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