

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS Cambridge International Primary Achievement Test

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

SCIENCE 0843/01

Paper 1 May/June 2010

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen Calculator

Pencil Ruler

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.

For Examiner's Use		
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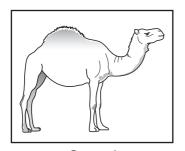
This document consists of ${f 15}$ printed pages and ${f 1}$ blank page.



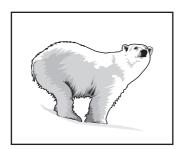
1 The place where an animal lives is called its habitat.

Draw a line to connect each animal in the list to the habitat in which it lives.

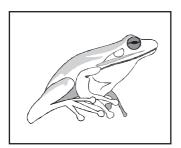
Animal



Camel



Polar bear

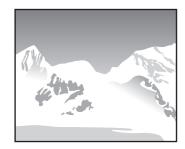


Tree frog



Whale

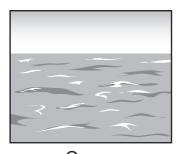
Habitat



Arctic



Desert



Ocean



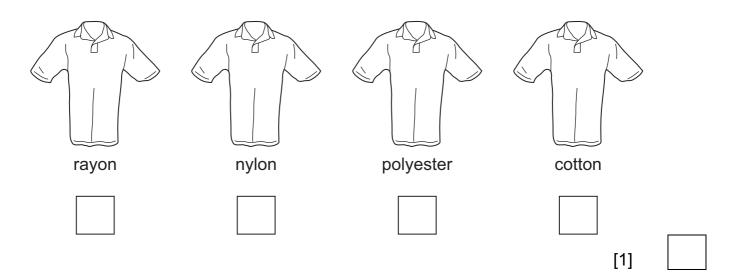
Rainforest

[3]

Page Total

2 (a) Shirts can be made from synthetic or naturally occurring materials.

Which shirt is made from a naturally occurring material? Tick (\checkmark) the correct box.



(b) The table shows some materials found in Mr. Patel's house. Tick (✓) the materials which came from living things.

Materials	Made from living things
gold	
wood	
diamonds	
silk	
wool	
slate	

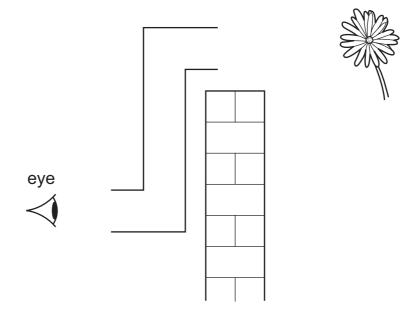
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3 (a) Freda is investigating light. She makes a periscope from card and two mirrors.



(i)	On the diagram, show I	how Fred	la needs	to	position	the	mirrors	so	that	the
	periscope will work.									

[1]	
Г.Т	

(ii)	Freda can see the flower using her periscope.
	Use a ruler to draw a ray of light on the diagram to show how she sees the
	flower. (Remember to draw the arrowheads to show the direction of the
	light.)

[2]	
[4]	

(b) (i) Glass in a bathroom window lets light through but we cannot see through it.

What is the name that we give to materials that behave in this way?

(ii) Glass in a normal window lets light through and we can see through it. What is the name that we give to materials that behave in this way?

[1]	
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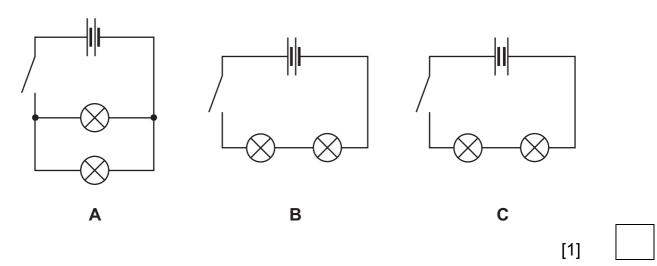
F	Fill in the r		e seven life process vo.	Ses.		
	Nutrition					
	Movemen	t				
	Reproduc					
!	Sensitivity	/				
	Respiration	on				[2]
b) l	Life proces Put each it	sses are w tem in the	what we use to expl list into the correct	lain if some t box in the	thing is living o table.	
	car	dog	fallen branch	glass	seaweed	tree
ſ						
		Livi	ing		Non-living	
		Livi	ng		Non-living	
		Livi	ing		Non-living	
		Livi	ing		Non-living	
		Livi	ing		Non-living	
		Livi	ing		Non-living	[3]
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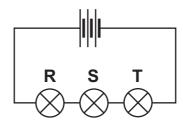
5 (a) An electrical circuit has two cells, correctly arranged, and two lamps in series with one switch. When the switch is closed both of the bulbs light up.

Which circuit, **A**, **B** or **C**, matches the description?

Put a circle around the answer.



(b) In this circuit, bulb S does not light up.

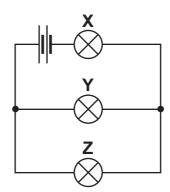


(i) What happens to bulbs R and T?

	R		
	Т	[1]	
(ii)	Why does this happen?		
		[1]	

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(c) In this circuit, bulb Y fails.



What happens to bulbs **X** and **Z**?

X		
Z	[1]	

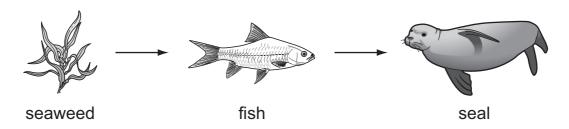
6 Joel is trying to separate the mixtures shown using a magnet. Tick (✓) **two** mixtures which can be separated using the magnet.

			6 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	250 00 00 00 00 00 00 00 00 00 00 00 00 0
iron and plastic	iron and steel	copper and steel	copper and paper	copper and lead

[2]

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7 This is a picture of a food chain.



(a) What is the name given to the seaweed in the food chain?	
--	--

	[1]	
(b)	What other name, apart from consumer and carnivore, can be given to the seal in the food chain?	
	[1]	
(c)	In the box, construct a food chain to show the relationship between a plant, a cat, a bird and a caterpillar.	

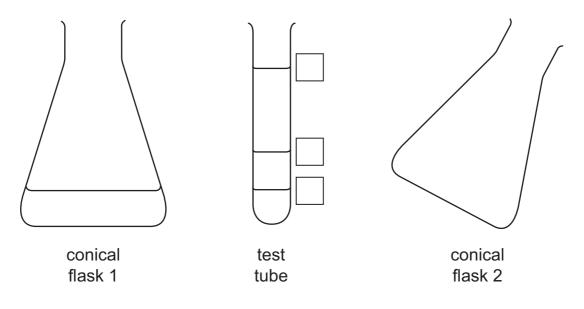
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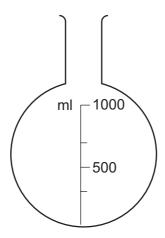
- 8 (a) The water from conical flask 1 was poured into the test tube.
 - (i) Which line represents the water level in the test tube? Tick (✓) the correct box.

The water was then poured from the test tube into conical flask 2.

(ii) Draw the approximate water level in conical flask 2.



(b) James poured 750 cm³ of orange juice into the flask. Draw a line to show the surface of the juice.



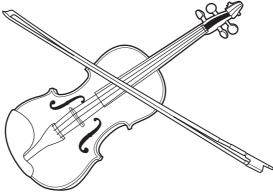
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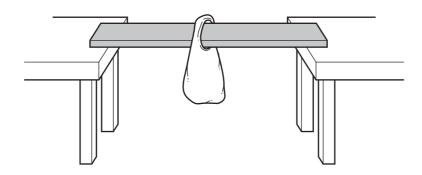
9 (a) Anita plays the violin with a bow.



	(i) How would she make the volume quieter?		
		[1]	
	(ii) What two things could she do to play a note with a higher pitch?		
	1	••••	
	2	[2]	
(b)	Here are four statements about how a violin makes a note and reaches our ear. Put numbers in the boxes next to each statement to show their corre		
	The body of the violin makes the sound louder.		
	The sound carries vibrating air particles until they reach our ears.		
	The vibrations enter the body of the violin.		
	The violin string vibrates.		
		[1]	



10 Sam and Emily are experimenting to find the best material for building bridges. They measure the strength of the materials by hanging weights in a bag from each material as shown in the diagram.



Their results are shown in the table

Material	Mass supported (g)
cardboard	25
metal	150
plastic	95
thin card	5
wood	65

(a) Before they started the tests, Emily said that metal would be the stro	ngest.	
What is this statement called?	[1]	
(b) (i) Name two things they could do to make their tests fair.		
1		
2	[2]	
(ii) How could they make their results more reliable?		
	[1]	
(c) From their results, which is the third best material for making a bridge	je?	
	[1]	
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11 When a solid dissolves in water you cannot filter out the solid.

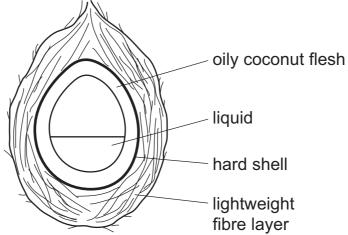
Aravinder makes a sugar solution by adding sugar to water.



(a) Complete the sentences using either the word **solute** or **solvent** in each of the spaces.

Aravinder leaves the solution he made for a lon	ig time in a warm room, the	
evaporates. When all the	has gone,	
only the is left.	[2]	
(b) What is the name of the process used to get the	e solid back from the solution?	
	[1]	
(c) What happens to the concentration of the removed?	sugar solution as the water is	
	[1]	

12 (a) The diagram shows a section through a coconut fruit.



Which part of the fruit stores the food that is used for germination?

[1]

(b) A seed is produced when the male and female sex cells join. What is this process called?

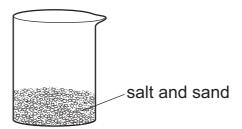
[1]

(c) The drawings show four fruits.

Which two of these plants rely on animals to disperse their fruits?

and	[2]	
	_	

13 Leroy has a beaker containing salt and sand. He wants to separate the salt from the sand.



He has a list of what to do but it is muddled up. Write the numbers in the correct order to do the separation. One has been done for you.

evaporate off the water	5	
stir to dissolve the salt		
pour salt water into an evaporating basin		
filter off the sand		
add water		
	[1]	

Page Total

irı	raw straight lines from reversible.	n each of the changes to	to snow it they are rev	versible of
	condensing water			1
	nail rusting		reversible	
	breaking an egg		irreversible	
	evaporating water			
				[2]
(b) W	hich one of the above	e irreversible reactions is	s not a chemical chan	ge?
		e irreversible reactions is		[1]
				[1]
				[1]

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