

Paper 2

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS Cambridge International Primary Achievement Test

SCIENCE		0843/02
CENTRE NUMBER	CANDIDATE NUMBER	
CANDIDATE NAME		

_

Additional Materials: Pen Calculator

Pencil Ruler

Candidates answer on the Question Paper.

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.

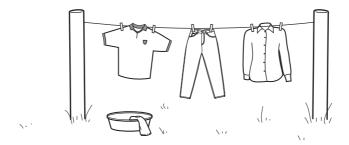
For Exam	iner's Use
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May/June 2010 45 minutes

This document consists of **16** printed pages.



1 The picture shows washing hanging on a line to dry.



Complete these sentences using some of these words.

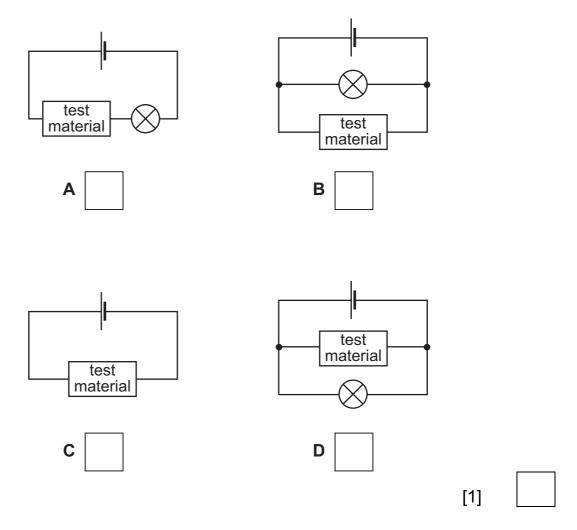
condensed	cool	€	evaporated	gain	ed		
hot		inside	less		lost		
more	still	S	surface	water	windy		
The washing dries more quickly when it is a and							
		day. The	Sun heats up th	ne water in th	ne clothes and		
it is		. On a	windy day the v	water is carri	ed away from		
the		of the	clothes.				
The clothes alwa				after drying	because they		
have		wate	er.				
					[4]		

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	3	
2	(a) Eating a varied diet is very important to keep our bodies health diets of Sadiq and Fatima. Who has the healthier diet? Tick (✓) the correct box.	y. Look at the
	Sadiq Fatima	
	Sadiq Fatima eats sweets and chocolate enjoys eating fruit drinks fizzy drinks enjoys eating meat enjoys eating meat drinks plenty of water	
		[1]
	(b) What we eat can be damaging to our teeth. Tick (✓) two foods which can lead to tooth decay.	
	meat	
	sugary foods	
	salt	
	fizzy drinks	
	bread	
	pasta	
		[1]

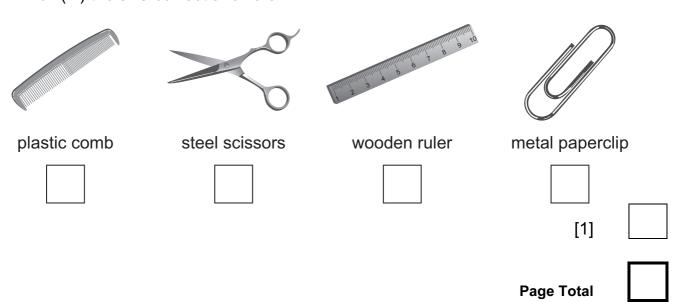
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- 3 Alec is going to test some different materials to see if they conduct electricity.
 - (a) Which of these circuits should he use? Tick (✓) the correct box.



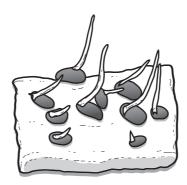
(b) Which **two** items, if put into the correct circuit above, would cause the bulb to light up?

Tick (\checkmark) the **two** correct answers.

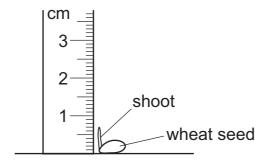


(c)	What do we mean by the terms		
	(i) electrical conductor		
		[1]	
	(ii) electrical insulator?		
		[1]	
(d)	The picture shows some electrical wiring from a house. Each individual covered in plastic and then all the separate wires are covered in anoth of plastic.		
	Why are the wires covered in plastic?		
		[1]	

4 When wheat seeds are grown on damp paper they germinate and grow an upright shoot as shown in the drawing.



Some students are using these seeds to investigate plant growth. They decide to measure the length of each shoot.



(a) How long is the shoot shown in the diagram?

mm	[1]	

(b) The students decide to germinate 8 seeds and measure the length every two days for six days. The table shows their results.

	Length in mm						
Shoot	Day 0	Day 2	Day 4	Day 6			
1	0	2	6	9			
2	0	3	7	9			
3	0	2	7	10			
4	0	3	7	9			
5	0	2	7	9			
6	0	2	6	10			
7	0	3	7	11			
8	0	3	8	10			

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			7					
Use their results to ar (i) How much did Sh			-		een Day	/ 2 and Da	y 6?	
				•••		mm	[1]	
(ii) Draw a bar chart height on Day 6.	on	the axes	to show	how mai	ny shoc	ots there ar	e at ea	ch
	5-							
	4 -							
number	3 -							
of shoots	2-							
	1-							
	0 -							
	0 -	9 mm	10 mm	11 mm	I			
			length o	of shoot				
							[2]	
(iii) Two of the studer Tick (✓) the corre					ent is Tr	ue or False	Э.	
						True Fa	alse	
All the seeds grev	v at	the same	e rate.					
All the seeds incre	ease	ed in lend	ath as the	e davs pa	ssed.			

[2] Two of the students made these statements. Tick (✓) the correct box to show if each statement is True or False. True False Ill the seeds grew at the same rate.	<u> </u>		
Tick (✓) the correct box to show if each statement is True or False. True False		[2]	
		rue or False.	
Il the seeds grew at the same rate.		True False	
Il the seeds increased in length as the days passed.			
[1]		[1]	

5	Animals	can be	divided	into	groups	using	body	features.
-					3		,	

(a)	Which group does each animal belong to?
	Tick (\checkmark) the correct box.
	The first one has been done for you.

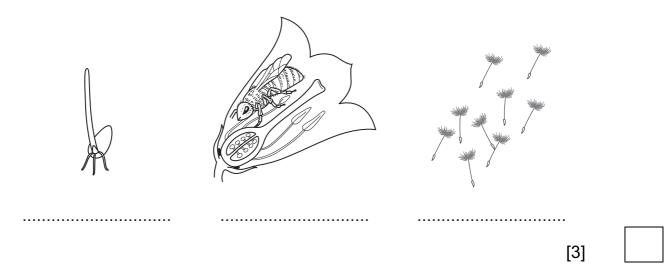
	body covered in hair/fur	body covered in feathers
bear	√	
chicken		
duck		
eagle		
horse		
parrot		
penguin		
rat		
tiger		
wolf		

	eagle				
	horse				
	parrot				
	penguin				
	rat				
	tiger				
	wolf				
				[2]	
(b) What nan	ne is given to anin	nals that have fea	thers?		
				[1]	

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6	Some metals are	attracted to mag	nets.							
	(a) In the list, tick (✓) the magnetic materials.									
	lead		magnesium							
	copper		steel							
	iron		nickel							
					[3]					
	• •		over two magnets. Dens when he shake	es some iron filing	s over it.					
	What does th	is tell you about t	he poles of the mag	nets?						
					[1]					
	(c) Peter moves	one of the magne shows his new re								
	What does th	is tell you about t	he poles of the mag	nets?						
					[1]					
	••••••				[']					
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7 Flowering plants and animals have a life cycle.
Write under each picture the stage or name which the plant is in.



8 Some materials can have a range of properties. Plastic can be transparent or opaque. Some plastic bags you can see through, others you cannot see through.

Look at the materials in the table and tick (\checkmark) if the material sometimes has the stated property.

Property	Metal	Glass	Wool
flexible			
hard			
rigid			
shiny			
transparent			

[4]	
141	

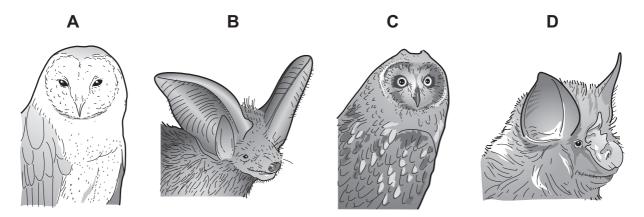
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9	(a)	Tick (✓) the correct box to complete the statement.		
		Pulling is an example of a		
		mass		
		force		
		speed		
		pressure		
		[1]	
	(b)	The picture shows two teams having a tug-of-war.		
		winning line		
		Team A Team B		
		To win, a team has to pull the other team over the winning line. Which team is likely to win? Tick (\checkmark) the correct box.		
		the team with three people in it		
		the team with two people in it		
		the team that applies the greatest force		
		the team that applies a balanced force		
		[1]	
	(c)	If Team A applies a total force of 100N and Team B applies a force of explain what will happen.	850N	
		[1]	
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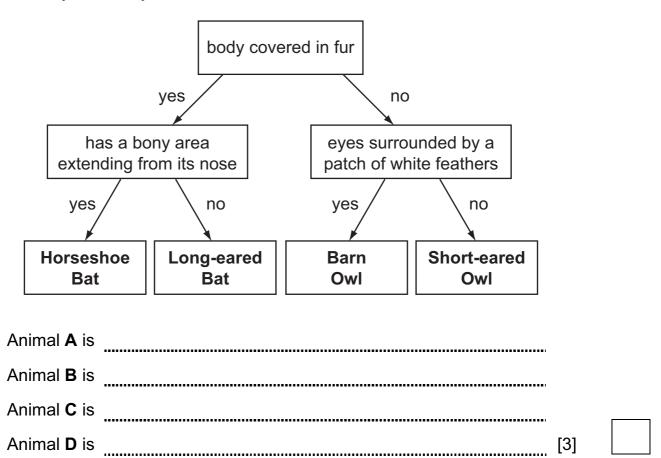
10 Some substances dissolve in water, some do not dissolve. Complete the table by ticking (✓) the correct column.

Substance	Dissolves	Does not dissolve
chalk		
flour		
salt		
wax		

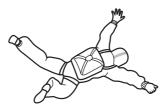
11 The drawings show four animals that fly at night.



Use the key to identify the animals shown.



12	(a)	A sky	vdiver l	has iur	nned	out o	f an	aircraft	but has	not v	et o	nened	her	parachute.
1 4	(u)		yuivci i	ilas jui	IPCU	out o	ıaıı	ancian	Dut Has	ilot y	CLO	perieu	1101	paracriuto.



Which of these statements best describes what is happening? Tick (\checkmark) the correct statement.

She is pushed towards the surface of the Earth by the force of gravity.		
She is pushed towards the centre of the Earth by the force of gravity.		
She is pulled towards the surface of the Earth by the force of gravity.		
She is pulled towards the centre of the Earth by the force of gravity.		
	[1]	



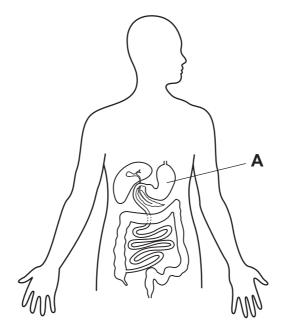
(b) Tick (\checkmark) the correct statement.

When the skydiver has opened her parachute she will

slow down at first and then fall at a constant speed.	
speed up at first and then fall at a constant speed.	
slow down at first then speed up.	
speed up until she is stationary.	

[1]	
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13 The diagram shows a human body and part of one of its major organ systems.

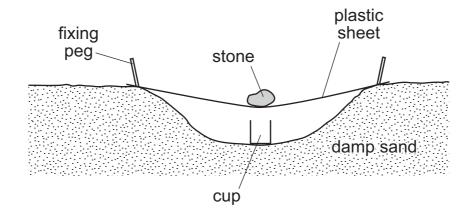


(a) Which organ system is shown? Circle the correct answer.

	circulatory	digestive	nervous	reproductive	[1]	
(b)	Name the organ	abelled A .			ניו	
					[1]	
(c)	(i) Mark an X on	the diagram to sh	now the position o	of the heart.		
					[1]	
	(ii) What is the fu	ınction of the hea	rt?			
					[1]	
(d)	What does the ex	cretory system de	0?			
					[1]	

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14 Ahmed was trying to get some drinking water from damp sand in the desert. He digs a hole and fixes a plastic sheet over it. He puts a stone in the middle of the sheet. Underneath the stone in the centre of the hole is a cup. The diagram shows the equipment he set up.



Use these words to complete the sentences.

boils	cor	ndenses	cup	evaporates		
	freezes	hollow		topside	underside	
The Sun heats up the damp sand. The water in the sand						
It	on the			of the plastic sheet, and runs		
down the sheet and collects in the						
					[3]	

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