

Cambridge International Examinations Cambridge Primary Checkpoint

## SCIENCE

0846/01 April 2016

Paper 1 MARK SCHEME Maximum Mark: 50

## **IMPORTANT NOTICE**

Mark Schemes have been issued on the basis of **one** copy per Assistant Examiner and two copies per Team Leader.

This document consists of **12** printed pages.



Ques	Question number					CPSC	0395	
Part	CF	Skill	Mark	Answer				Further Information
	4Cs1	К	3	material	solid	liquid	gas	all <b>six</b> correct = 3 marks
				water		(✓)		four or five correct = 2
				iron	~			marks
				mercury		~		three correct = 1 mark
				oxygen			~	one or two correct = 0 marks
				carbon dioxide			~	if more than one box is ticked in a row = 0 marks for that material
				copper	~			
				salt	~			
Total			3					

Ques	tion nur	nber	2	CPS00339	
Part	CF	Skill	Mark	Answer	Further Information
(a)	6Be1	К	1	littering the forest making paths through the forest protecting the species in the forest removing the fruits from the forest	more than one circled = 0 marks
(b)	6Be1	К	2	educating people       number of trees increases         planting new trees       know how to care for the environment         removing old dead trees       more space for new trees to grow	three correct = 2 marks one or two correct = 1 mark if more than one line from a box = 0 marks for that box
Total		I	3		

Question number		3	CPS00497		
Part	CF	Skill	Mark	Answer	Further Information
(a)	5PI2	A	1	move his hands closer to the screen / move his hands further from the screen / move his hands closer to the light source / move his hands further from the light source	
(b)	5PI5	A	1	Hassan makes a shadow puppet because his hands are <b>opaque</b> .	more than one word = 0 marks
Total	Total		2		I

Ques	Question number 4		4	CPS00531	
Part	CF	Skill	Mark	Answer	Further Information
	6Bh2	А	1	kidney	
Total	Total 1		1		

Ques	tion num	ber	5	CPS00294	
Part	CF	Skill	Mark	Answer	Further Information
(a)	6Ep7 6Cc3	E	2	balance     10 cm³ of water       measuring cylinder     temperature of water       stop watch     1.0g of solid       thermometer     1 minute	<pre>four correct = 2 marks two or three correct = 1 mark one correct = 0 marks if more than one line from a box = 0 marks for that box</pre>
(b)	6Cc3	A	2	A / A is the colourless solution B / blue solution	do not accept colourless solution for A each correct solid = 1 mark if three given with A and B = 1 mark if three given with either A or B given = 0 marks e.g. A C and D if all four given = 0 marks
(c)	6Cc3	A	1	<b>D</b> / cloudy mixture	more than one letter = 0 marks
Total	I		5		·

Ques	tion numl	oer	6	CPS00415	
Part	CF	Skill	Mark	Answer	Further Information
	4Ps2	K	2	true false	four correct = 2 marks
				Sound can travel through 🗸	<b>two</b> or <b>three</b> correct = 1 mark
				Sound travels as vibrations.	one correct = 0 marks if both boxes ticked in a
				Sound travels at the same speed in all materials.	statement = 0 marks for that statement
				We hear sounds when vibrating air hits our eardrums.	
Total			2		

Ques	Question number		7	CPS00135	
Part	CF	Skill	Mark	Answer	Further Information
	6Bh3	K	3	Clue 1: heart	five correct = 3 marks
				Clue 2: brain	three or four correct = 2 marks
				Clue 3: lung / lungs	two correct = 1 mark
				Clue 4: kidney / kidneys	one correct = 0 marks
				Clue 5: stomach	
Total	Total		3		

Ques	tion num	oer	8	CPS00532		
Part	CF	Skill	Mark	Answer	Further Information	
(a)	4Bh2	A	1	All the skeletons protect the organs inside the body. <b>true</b> All the skeletons grow as the animals grow. <b>true</b>	<b>both</b> answers true = 1 mark	
(b)	4Bh3	A	1	Two of the skeletons are human. <b>false</b> Only humans have muscles attached to the bones. <b>false</b>	<b>both</b> answers false = 1 mark	
Total	Total		2			

Quest	ion numb	er	9	CPS00032	
Part	CF	Skill	Mark	Answer	Further Information
(a)	4Pm4	К	2	Like poles of two magnets attract. ✓ Magnetism is a force. ✓ Most magnets are made of iron. ✓ Most metals are attracted towards a magnet.	<pre>one mark for each correct tick three ticks, two correct = 1 mark three ticks, one correct = 0 marks four ticks = 0 marks</pre>
(b) (c)	4Eo5 4Pm4 4Ep4 4Pm4	E	2	A (idea of) held the most pins / held more pins (idea of) same (type of) pins	<b>one</b> mark for each correct answer more than one letter = 0 marks
Total	<u> </u>		5		

Ques	Question number		10	CPS00485		
Part	CF	Skill	Mark	Answer	Further Information	
(a)	5PI5	A	1	1 2 3 4 5 6	more than one answer circled = 0 marks	
(b)	5PI5	A	1	(idea that the word Pierre) is darker / is brighter / can be seen easily (for one material) / can be seen clearly (using one material) / one of them is clear / there is a light and dark Pierre	answer must be a comparison so Pierre is dark (on its own) = 0 marks	
Total	Total		2			

Ques	tion numl	oer	11	CPS00467	
Part	CF	Skill	Mark		Further Information
	4Cs3	K	2	At sea level water boils at 90 °C.   Steam condenses to make water   vapour.   The boiling of water is an irreversible   process.   The freezing point of water is the same   as the melting point of ice.   The melting point of ice is 0 °C   Water evaporates to make ice.	<pre>one mark for each correct tick three ticks, two correct = 1 mark three ticks, one correct = 0 marks four ticks = 0 marks</pre>
Total			2		

Ques	tion num	oer	12	CPS	00506
Part	CF	Skill	Mark	Answer	Further Information
	5Вр3	A	2	coconut water	four correct = 2 marks two or three correct = 1 mark one correct = 0 marks
				cow-pea explosion	
				dandelion wind	
				orange <u>animal</u>	
Total			2		

Question number			13	CPS00444			
Part	CF	Skill	Mark	Answer			Further Information
	5Pb3	К	1	Chen	Mike	Oliver	more than one circle = 0 marks
Total			1				

Question number			14	CPS00262		
Part	CF	Skill	Mark	Answer	Further Information	
(a)	3Cp4	A	2	This is because plastic <b>does not</b> <b>dissolve (in water) / is</b> <b>insoluble</b> . This is because pottery <b>does not</b> <b>dissolve (in water) / is</b> <b>insoluble / (has a melting</b> <b>point above) 700 °C</b>	each correct answer = 1 mark	
(b)	6Cc2	A	1	add water, filter and evaporate         the filtrate         evaporate the mixture and then condense the vapour         filter the mixture         use a magnet	more than one tick = 0 marks	
(C)	6Cc2	A	1	add water, filter and evaporate   the filtrate   evaporate the mixture and then   condense the vapour   filter the mixture   use a magnet	more than one tick = 0 marks	
					1	

Question number			15	CPS00268		
Part	CF	Skill	Mark	Answer	Further Information	
(a)	3Bh5 3Eo4	E	1	(area) <b>D</b> / tip of tongue	more than one letter = 0 marks	
(b)	3Bh5 5Eo5	E	1	(idea that) she did not taste any / cannot taste (in the middle part)		
(c)	5Eo7		(idea that) area <b>D</b> can taste sweet / the	both parts correct = 1 mark		
Total	Total 3		3			

Ques	tion numl	ber	16		CPS00411	
Part	CF	Skill	Mark	Answer		Further Information
	5Pb4	К	1	Albert Einstein		more than one tick = 0 marks
				Galileo Galilei		
				Isaac Newton	$\checkmark$	
				Robert Hooke		
Total	Total 1					

Question number			17	CPS00477	
Part	CF	Skill	Mark	Answer	Further Information
(a)	6Pf2	К	1	X Y Z W	more than one letter circled = 0 marks
(b)	6Pf4	A	1	X Y Z W	more than one letter circled = 0 marks
Total 2			2		

Question number 18			18	CPS00461		
Part	CF	Skill	Mark	Answer	Further Information	
(a)	6Cc3	К	1	Salt <b>dissolves</b> in water to make a solution.	more than one word = 0 marks	
(b)	6Cc3	K	1	Water is the <b>solvent</b> in this process.	more than one word = 0 marks	
(c)	6Cc3	K	1	Salt is the <b>solute</b> in the solution.	more than one word = 0 marks	
(d)	6Cc3	К	1	When water <b>evaporates</b> from the salt solution a white solid is left behind.	more than one word = 0 marks	
(e)	6Cc3	К	1	Sand does not make a solution when mixed with water because it is <b>insoluble</b> .	more than one word = 0 marks	
Total	Total 5				,	

Question number			19	CPS00522		
Part	CF	Skill	Mark	Answer	Further Information	
(a)	5Ep4 5Bp3	E	1	(idea of) a fair test / to make it fair		
(b)	(b) 5Ep4 E 5Bp3		1	(idea of same) speed / time / shoe(s)		
Total	Total					

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