

Cambridge International Examinations Cambridge Primary Checkpoint

SCIENCE

Paper 1 MARK SCHEME Maximum Mark: 50 0846/01 October 2016

This document consists of **11** printed pages and **1** blank page.



Question number	1		
Part	Mark	Answer	Further Information
	3	kidneys / kidney lungs / lung	five correct = 3 marks
		heart brain	three or four correct = 2 mark
		stomach	two correct = 1 mark
			one correct = 0 marks
Total	3		

Question number	2		
Part	Mark	Answer	Further Information
	3	a force	each correct answer = 1 mark
		slow down	
		air resistance	
Total	3		

Question number	3		
Part	Mark	Answer	Further Information
(a)	1	fats / oils / sweets	
(b)	1	fruit / vegetable	 Accept named fruits or vegetables Accept vitamins / minerals Accept named vitamins / named minerals e.g. vitamin A Ignore fibre
Total	2		I

Question number	4				
Part	Mark	Answer			Further Information
	4	change	reversible	irreversible	seven correct = 4 marks six correct = 3 marks
		cooking rice		✓	five correct = 2 marks
		dissolving sugar in water	~		<pre>four correct = 1 mark one two or three correct = 0 marks</pre>
		burning wood		~	If same row ticked twice then 0 marks for that row
		evaporating salt water	✓		
		melting iron	✓		
		attracting steel to a magnet	✓		
		baking bread		~	
Total	4				

Question number	5		
Part	Mark	Answer	Further Information
(a)	2	any two from	each correct answer = 1 mark
		wood / glass / plastic / garden (material) waste / food (waste) / soil /	Accept any material that can be recycled e.g. plastic bottle / aluminium can
		paper / cardboard / oil / textiles / metal / named metal	Ignore water bottle / foil / tissue
(b)	1	any one from	Accept do not drop litter / pick up litter
		reducing waste / reduce the use of plastic or metal	
		reducing energy consumption	Accept examples of using alternative fuels e.g. use solar power instead of coal
			Accept using a bike instead of a car / drive less / stop using cars
		encourage others to care for the environment / encourage others to not pollute the environment	Accept protect wildlife
		not burning things	
		reuse material (e.g. reuse plastic bags)	
		not cutting down trees / plant trees	
		conserve water	Accept save water / reuse water
Total	3		·

Question number	6		
Part	Mark	Answer	Further Information
	3	type of electrical component symbol	five correct = 3 marks
		switch	three or four correct = 2 marks
		wire	two correct = 1 mark
		lamp	one correct = 0 marks
		cell	If more than one line from a component then 0 marks for that component
Total	3		

Question number	7						
Part	Mark	Answer					Further Information
	5	material mercury iron salt sand wood	ls it hard? (no) YES (yes) (yes)	proper Is it a liquid at room temp? YES NO (no) (no)	ties Is it soluble in water? (no) NO YES NO	Is it attracted to a magnet? NO yes (no) (no) (no)	<pre>eleven correct = 5 marks eight nine or ten correct = 4 marks six or seven correct = 3 marks four or five correct = 2 marks two or three correct = 1 mark one correct = 0 marks</pre>
Total	5					I	

Question number	8		
Part	Mark	Answer	Further Information
	1	Seeds are made when pollen fertilises the ovum.	Accept any indication of the correct answer more than one answer = 0 marks
Total	1		·

Question number	9		
Part	Mark	Answer	Further Information
	1	any one from so they cannot see the food so they are only using the sense of smell / so they have to rely on the sense of smell if we do not cover their eyes they will know what food it is	Ignore to make the test fair
Total	1		<u> </u>

Question number	10		
Part	Mark	Answer	Further Information
	1	The flower that has male and female organs is flower A . The flower that has female organs only is flower C . The flower that has male organs only is flower B .	all three correct = 1 mark
Total	1		·

Question number	11		
Part	Mark	Answer	Further Information
(a)	1	centigrade decibels Newtons seconds	Accept any indication of the correct answer more than one answer circled = 0 marks
(b)	1	67 74 84 86	Accept any indication of the correct answer more than one answer circled = 0 marks
(c)	1	decreases increases stays the same	Accept any indication of the correct answer more than one answer circled = 0 marks
Total	3		

Question number	12		
Part	Mark	Answer	Further Information
	2	NOT TO SCALE 6 1 9	each correct answer = 1 mark If either number written more than once then 0 marks for that number
Total	2		

Question number	13		
Part	Mark	Answer	Further Information
	2	any two from	each correct answer = 1 mark
		white (fur) / camouflage	
		thick fur / long fur / layers of fur	
		a lot of fat / thick fat / (thick) blubber black skin	
		large body	
		small ears	
		good eyesight	
		sharp teeth / sharp canines	
		wide paws / big paws / large paws / flat paws	
		non-slip paws / rough paws	
		good sense of smell	
Total	2		

Question number	14		
Part	Mark	Answer	Further Information
(a)	1	evaporation	Do not accept boiling
(b)	1	condensation	
(c)	1	0 °C	Answer must have the unit °C and not just ° or just C and not C°
			Accept the unit as degrees centigrade / degrees Celsius
Total	3		

Question number	15		
Part	Mark	Answer	Further Information
(a)	1	When Blessy pulls the string, the forearm moves up / bends up raises / rises / lifts up / moves towards the upper arm	Ignore just moves Do not accept contract
(b)	1	blood vessel bone joint muscle skin	more than one answer circled = 0 marks Accept any indication of the correct answer
Total	2		

Question number	16		
Part	Mark	Answer	Further Information
	3	Sun	line from Sun to Oliver = 1 mark line must touch Oliver
		Oliver horse	line from Oliver to horse's eye = 1 mark line must touch the horses' eye
			all arrows correct with at least one arrow drawn = 1 mark
			if line drawn between Sun and horse only arrow mark can be awarded
Total	3		I]

Question number	17		
Part	Mark	Answer	Further Information
(a)	1	one bump / one dot / one Braille / one point / one circle / one button	Accept not trying to feel for a pattern
(b)	1	any one from has the fewest repeats identifies the letter(s) first / identifies the letter(s) fastest identifies the most letters / can feel the most correctly	Answer must be comparative
		reads the best	
Total	2		

Question number	18		
Part	Mark	Answer	Further Information
(a)	1	thermometer	
(b)	1	balance / scale(s)	Do not accept weighing machine / measuring scale
(c)	1	idea of a fair test	Accept they do not change more than one factor
(d)	2	50 (°C) idea that the two masses are very different	each correct answer = 1 mark Accept because the second mass was much lower / there was a big drop for the second mass Accept all the other results are within 0.2 g of each other / there is an irregular pattern between the first and second result
(e)	2	any value less than 16 (g) and greater than 11.2 (g) idea of mass increases (with temperature) / amount get greater	each correct answer =1 mark Accept more fertilizer (can be dissolved as temperature increases)
Total	7		

12