Cambridge Secondary 1 Checkpoint

Cambridge International Examinations
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SCIENCE **1113/01**

Paper 1 **For Examination from 2014**

SPECIMEN MARK SCHEME

MAXIMUM MARK: 50

This document consists of **7** printed pages and **1** blank page.

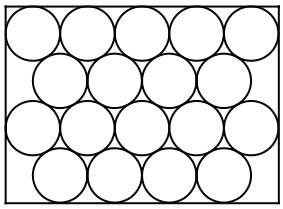
CAMBRIDGE International Examinations

Question	1		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	water plants / bamboo plant	**Accept** plant / bamboo
(b)	1	snail / panda	
(c)	1	idea of eating both animals and plants	
(d)	1	energy flow	**Ignore** what eats what
(e)	1	not enough food / shelter / habitat	**Accept** loss of homes / loss of nests
Total	**5**		

Question	2		
Part	**Mark**	**Answer**	**Further Information**
(a)	2	**C** / very high melting point **E** / good conductor of heat	1 mark for each answer Either order
(b)	1	**B** / can be compressed	
(c)	1	**F** / poor conductor of heat	
(d)	1	**H** / non-conductor of electricity	
Total	**5**		

Question	3		
Part	**Mark**	**Answer**	**Further Information**
(a) (i)	1	The amplitude of whistle **1** is **less than** the amplitude of whistle **2**.	
(ii)	1	The wavelength of whistle **1** is **the same as** the wavelength of whistle **2**.	
(b)	2	(Loudness) whistle **2** is louder (than whistle **3**) (Pitch) whistle **2** has a lower pitch (than whistle **3**)	1 mark for each **Accept** converse argument for each answer
Total	**4**		

Question	4		
Part	**Mark**	**Answer**	**Further Information**
	1	(Coral reef fish is a) **clownfish**.	
Total	**1**		

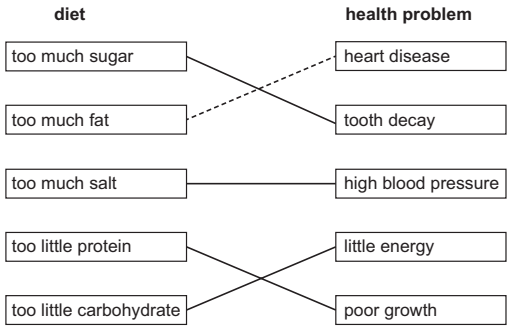
Question	5		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	Diagram should show regular arrangement of close packed particles 	The regular arrangement does not need to fill the box.
(b) (i)	1	In diffusion the perfume moves from an area of **high** concentration to an area of **low** concentration.	**Accept** higher/lower, more/less Both required for 1 mark
(ii)	1	(idea that) particles move **or** spread out	
Total	**3**		

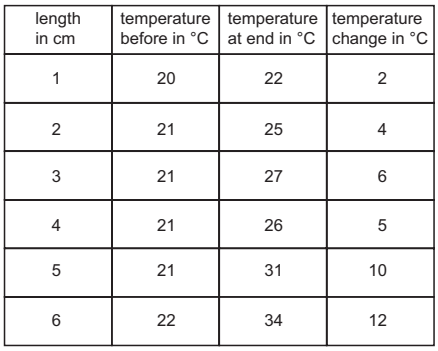
Question	6		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	Yes quotes some information from the table such as Mercury is closest to Sun and shortest time for orbit	No mark for yes – marks are for the explanation
(b) (i)	2	No Earth is cooler than Mars but closer to the Sun Mercury is cooler than Venus but closer to the Sun	No mark for no – marks are for the explanations
(ii)	1	information about more planets	**Accept** find another source to check the evidence obtained
(c)	1	(strength of) gravity is higher on Earth than Mars	**Accept** mass of Earth is greater than Mars
Total	**5**		

Question	7		
Part	**Mark**	**Answer**	**Further Information**
(a) (i)	1	Coo (and) Lam	Either order
(ii)	1	the ones that produce the most eggs	
(b)	2	size of eggs ✓ amount of milk produced low life expectancy number of feathers colour of feathers resistance to disease ✓	2 correct = 2 marks 1 correct = 1 mark If 3 boxes ticked, 2 correct = 1 mark If 3 boxes ticked, 1 correct = 0 marks If 4 or 5 or 6 boxes ticked, 2 correct = 0 marks
Total	**4**		

Question	8		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	**Igneous** rocks are formed when molten lava from a volcano cools down.	
(b)	1	**Sedimentary** rocks are made from grains of rock that are cemented (stuck) together.	
(c)	1	**Metamorphic** rocks are made when heat and pressure change other types of rock.	
(d)	1	**Sedimentary** rocks are found in layers and often contain fossils.	
Total	**4**		

Question	9		
Part	**Mark**	**Answer**	**Further Information**
(a)	2	**A** – coil or wire **B** – core	
(b)	2	part **A** – material: copper part **B** – material: iron	
Total	**4**		

Question	10		
Part	**Mark**	**Answer**	**Further Information**
(a)	2		4 correct = 2 mark 2 or 3 correct = 1 mark 1 correct = 0 marks
(b) (i)	1	pineapple (and) banana	Both required, either order
(ii)	1	(idea that it) keeps the digestive system healthy / speeds up the movement of waste out of the body / helps prevent (bowel) cancer	**Accept** prevents constipation
(iii)	1	fruits contain very little fat (or no fat) / there is less fat than fibre in fruit	
(iv)	1	mass / size / volume	
Total	**6**		

Question	11		
Part	**Mark**	**Answer**	**Further Information**
(a)	3		Correct data recorded in table = 1 mark Correct headings = 1 mark Correct temperature changes entered in table = 1 mark **Accept** if not in correct order but data is same
(b)	1	result for 4 cm	This can be highlighted on the table or written down
(c)	1	exothermic	
Total	**5**		

Question	12		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	newtonmeter / forcemeter	
(b)	1	(idea of) checking reliability / identify anomalous / odd / unusual results	
(c)	1	9.7	
(d)	1	**32.6** - first row second number	**Accept** answer written on paper by **(d)**
Total	**4**		

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