

Cambridge International Examinations

Cambridge Secondary 1 Checkpoint

SCIENCE 1113/01

Paper 1 October 2015

FINAL 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.



Question number	1	CSS00164	
Part	Mark	Answer	Further Information
(a)	2	A (cellulose cell) wall	each correct answer = 1 mark
		B (cell) membrane	
(b)	1	cell wall / (large) vacuole / A / D	
(c)	1	chloroplasts	
(d)	1	to absorb water / absorb mineral salts / absorb nutrients	
Total	5		

Question number	2	CSS00098MS_A	
Part	Mark	Answer Further Information	
(a)	1	1	Accept any value between 0 and 3
(b)	1	pink or red to blue or purple	both colours correct = 1 mark
Total	2		

Question number	3	CSS00387	
Part	Mark	Answer	Further Information
(a)	2	A Mars B Earth C Mercury D Venus	four correct = 2 marks two or three correct = 1 mark one correct = 0 marks
(b)	2	The planet with the smallest orbit around the Sun is planet C . The planet that takes the shortest time to orbit the Sun is planet C .	each correct sentence = 1 mark Accept Mercury instead of planet C
Total	4		

Question number	4	CSS00118_A	
Part	Mark	Answer	Further Information
(a)	2	Any two from size (of plant) / height (of plant) number of leaves / size of leaves amount of roots / length of roots size of flowers / number of flowers	
(b)	2	photosynthesis pollination respiration fertilisation excretion	three ticks, two correct and one incorrect = 1 mark three ticks, one correct and two incorrect = 0 marks four or more ticks = 0 marks
Total	4		,

Question number	5	CSS	00278
Part	Mark	Answer	Further Information
(a)	2	neon Ne Ne sodium S	<pre>all correct = 2 marks two correct = 1 mark one correct = 0 marks</pre>
(b)	2	iron + magnesium sulfate	one mark for each correct product Do not accept magnesium sulfide
(c)	1	Copper is higher in the reactivity series than iron. Copper is more reactive than iron. Iron is more reactive than copper. Iron sulfate is higher in the reactivity series than copper sulfate.	two or more ticks = 0 marks
Total	5		

Question number	6	CSS00366	
Part	Mark	Answer	Further Information
(a)	1	units	Accept s / seconds / hours
(b)	1	citric (acid)	
(c)	1	bar chart	
(d)	1	(idea of) doing the experiment again	
Total	4		

	7	CSS	00397
Part	Mark	Answer	Further Information
(a) (i)	1	When Lily's torch light overlaps with Mia's torch light, cyan light is produced.	
(ii)	1	When Safia's torch light overlaps with Lily's torch light, magenta light is produced.	
(iii)	1	When all three lights overlap, white light is produced.	
(b)	1	(changes to) yellow	
Total	4		

Question number	8	CSS00317	
Part	Mark	Answer	Further Information
(a)	1	growth of body hair / pubic hair	Accept idea of growth spurt
(b)	2	produce or release eggs / ova / ovum / ovulation produces hormones / controls menstruation	
(c) (i)	1	prepare for implantation (of fertilised egg)	
(ii)	1	released as a period / menstruation / released as blood out of vagina / passes out through the vagina	Accept it will break down
Total	5		

Question number	9	CSS00177_A	
Part	Mark	Answer	Further Information
(a)	1	(idea of) running out / used up / non-renewable / finite resource	
(b)	2	Any two from solar wind hydroelectric geothermal tidal wave biofuels	
Total	3		

Question number	10	CSS00189	
Part	Mark	Answer	Further Information
(a)	1	bends or straightens	Accept movement in one plane / movement in one direction
(b)	1	support / protection	
Total	2		

Question number	11	CSS00359		
Part	Mark	Answer	Further Information	
(a)	3	Fossils are often the remains of the hard parts of the animal. The rest of the animal would have decayed. The fossil record can be used to estimate the age of the Earth.	one mark for each correct answer	
(b)	1	Е		
(c)	1	There were no animals around when igneous rocks formed. Animals only lived near water where sedimentary rocks formed. Igneous rocks form under pressure. The temperature of the molten rock would have destroyed the remains of the organism.	correct tick = 1 mark if more than one tick = 0 marks	
Total	5		•	

Question number	12	CSS00286	
Part	Mark	Answer	Further Information
(a)	1	balance / scales	
(b)	2	(idea of) put block in beaker (full) of water / eureka can of water measure the volume of water (displaced) using a measuring cylinder or (idea of) measure the length, height and width with a ruler / measuring tape (idea that) the three measurements of the block are multiplied together	
(c)	2	7 = 2 marks but 210 / 30 = 1 mark or density = mass divided by volume = 1 mark	
(d)	1	g cm³ cm³ g g/cm³ cm³/g	more than one answer circled = 0 marks
Total	6		

Question number	13	CSS00363		
Part	Mark	Answer	Further I	nformation
	1	substance	type	all correct = 1 mark
		chlorine	mixture	
		salt water	element	
		sodium chloride c	ompound	
Total	1			

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