CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

## MARK SCHEME for the October/November 2014 series

## **0653 COMBINED SCIENCE**

0653/52

Paper 2 (Practical Test), maximum raw mark 30

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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Ρ	age 2	Mark Scheme	Syllabus	Paper	
		Cambridge IGCSE – October/November 2014	0653	52	
1	ful co	set of results (colours) recorded for tube <b>A</b> ; set of results (colours) for tube <b>B</b> ; rrect trend for tube <b>A</b> (later samples are brown/orange) ; <i>(check Sup</i> rrect trend for tube <b>B</b> (all blue-black) ;	ervisors res	ults) [4]	
	bro	nount of starch reduces/no starch by end of experiment ; own colour appears when no more starch present ; nrch (is) digested/starch (is) broken down by the amylase ;		[3]	
	(c) (i)	starch is still present ;		[1]	
	(ii)	amylase is, denatured/not working/inactive ; starch is not broken down ;		[2]	
				[Total 10]	
2	(a) (i)	initial temperature of <b>P</b> recorded to nearest 0.5°C;		[1]	
	(ii)	sensible final temperature of <b>P</b> (expect increase of 2–4 °C) ;		[1]	
	(iii)	sensible final temperature of <b>Q</b> (expect decrease of $1-2^{\circ}C$ );		[1]	
		th temperature <u>changes</u> correct (ignoring signs) ; th signs correct ;		[2]	
	(c) (i)	blue ppt. ; dark blue solution/deep blue solution/purple solution ; copper/Cu <sup>2+</sup> /copper(II) ; <i>(depends on observation of blue)</i> ( <b>not</b> Cu	(۱	[3]	
	(ii)	sodium hydroxide solution AND blue ppt.;		[1]	
	(iii)	white ppt. AND chloride ;		[1]	
			I	[Total: 10]	

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P	age 3	Mark Scheme	Syllabus	Paper	
		Cambridge IGCSE – October/November 2014	0653	52	
3	(a) (i)	sensible <i>l</i> <sub>0</sub> (check Supervisors values) recorded to the nearest milli	metre ;	[1]	
	(ii)	values of $m$ (100 g) and <i>l</i> present in the table ;		[1]	
	(iii)	extension calculated correctly (for 100g);		[1]	
	(iv)	all readings present of mass and length present ; all lengths increasing down the table ; all extensions correct ;		[3]	
	4 p	table choice of linear scales ; oints plotted correctly to $\pm \frac{1}{2}$ small square ; od best fit straight line judgement <u>through origin</u> ;		[3]	
	<b>(c)</b> (dir	rectly) proportional ;		[1] [Total: 10]	