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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2011 question paper for the guidance of teachers

0653 COMBINED SCIENCE

0653/52

Paper 5 (Practical), 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 must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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Page 2				heme: Teachers' version		Syllabus	2	
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(a)	gre cor	rt and ater tl nsister	han 100 nt recor));	perature recorded (maximumperatures; o 0.1g;	ım high	ner than start and not	DaCambridg [3]
	(i)	corre	ect calc	ulation of	maximum – start ;			[1]
	(ii)	corre	n of 3 decimal places ;	[2]				
	(iii)	loss inco wate	to boilir mplete er not ev	osphere ; ng tube ; combusti venly hea ecting fla	ted;			[max 1]
	(iv)	stirri shie	ld flame	-	me and tube minimised ;			[max 1]
(b)	(i)	iodir	ne:	(from) (to)	orange/red/brown black/blue;			[1]
	(ii)	resu	<i>It</i> : posit	ive/yes a	ınd substance: starch ;			[1]
								[Total: 10]
(a) a	res	alues t of va		d spaced	d at 50mm ; e increasing with increasing	ı distand	ce;	[1] [1] [1]
(c)	(i)	plott	ible sca ing corr		least 4 points ; ;			[3]

[1] [1]

[1]

(ii) line extended to cut vertical axis;

(ii) converted correctly into a mass;

(i) read correctly;

(d)

(iii) mass of rule 2 m; (within 10% of Supervisor's Results) [1]

[Total: 10]

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3 (a) green; (ignore reference to white)

(b) residue is white; (ignore reference to green) filtrate blue/blue-green;

(c) (i) blue ppt.; [1] insoluble in excess;

(ii) blue ppt.;
dark blue solution; [2]

(iii) white ppt.; [1]

(iv) cation is copper/Cu²⁺; [1] anion is sulfate/SO₄²⁻; [1]

[Total: 10]