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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

0653 COMBINED SCIENCE

0653/51

Paper 5, (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 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.

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[Total: 10]

Page 2		2	Mark Scheme: Teachers' version	Syllabus	Nr.
	rage z		IGCSE – May/June 2012	0653	2
1	(a) (i) (ii)	A: b B: b			Da Cambridg
	(b) (i) (ii)	to p	often leaf/to kill leaf ; revent alcohol from igniting ; tosynthesis occurred in leaf A ;		[1] [1]
	(111)	due mak	to light; king starch/making glucose; reverse argument for leaf B)		[3] [Total: 10]
2	(a) (i)	(a) (i) V and I reading for 20 cm, AND V and I same order of magnitude supervisor, AND V greater than I;			[1]
	(ii)	V ar	nd I reading for 40 cm, AND V greater than I ;		[1]
	(iii)		nd I readings for 60, 80 and 100 cm; acreases and I decreases down the table;		[2]
	(iv)	all R plac	R values calculated for 5 or 4 sets of readings to sames;	ne number of decimal	[1]
	(b) (i)		nts: 4 points plotted correctly within $\frac{1}{2}$ square; best straight line passing through (0,0) within $\frac{1}{2}$ squ	ıare ;	[2]
	(ii)		king shown on graph or below graph ; dient calculated correctly ;		[2]
	(iii)	cros	ss-sectional area, C calculated correctly to 2 significa	nt figures ;	[1]

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[2]

[2]

Page 3	Mark Scheme: Teachers' version	Syllabus	T.
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3 (a) (i) residue: green; filtrate: colourless;

(ii) observations: bubbles/fizzes/effervesces; conclusion: carbonate/CO₃²⁻;

(iii) observation: blue ppt; conclusion:

copper/Cu²⁺/Cu(II);

(b) (i) observation: white ppt; conclusion:

chloride/ Cl^- ; [2]

(ii) observation: no change; conclusion:

not sulfate/not SO_4^{2-} ; [2]

[Total: 10]