UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0653 COMBINED SCIENCE

0653/51

Paper 51 (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.

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

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2		Mark Scheme: Teachers' version IGCSE – May/June 2010	Syllabus 0653
(a)		rawings with sun leaf smaller;	acant
	sho	;	
	acc (the	urate measurement of length of sun leaf from diagra urate measurement of length of shade leaf from diag ese values should be the maximum possible lengths of ONE mark if in cm	gram +/- 2mm;
(b)		rea for greater absorption of light (for photosynthesis o say more than just more photosynthesis	s); [1
(c)	cori cori	e constructed correctly with correct headings; rect comparison of leaf thickness; rect comparison of numbers of palisade cells; rect comparison of size of air spaces;	
		wers may be in words or figures	[4
	(ii) pre	vents too much water (vapour) loss due to transpirat	tion; [1
			[Total: 10
(a)		figures for both (refer to SV);	
	•	give this mark if in cm) gures correctly;	
	answer;	[3	
(b)	(iv) tabl		
		adings; decreasing;	
		/alues all less than d 1; hly 4 readings, lose 1 st mark	
	if or	nly 3 readings lose 1 st and 2 nd mark	[3
(c)	graph		
		able scale; pints plotted correctly;	
		t straight line;	[3
(d)	correct	evaluation;	[1
			[Total: 10

Page 3	Mark Scheme: Teachers' version	Syllabus
	IGCSE – May/June 2010	0653 230
a) volume	of drop between 0.03 and 0.1 cm ³ (inc);	Syllabus 0653 BDRCamb
-	of drops for X is between 20 and 30; lecrease;	
	of drops approximately halves going down;	I
c) X is mos	st concentrated because needs most drops (ecf);	I
-	t relight/extinguish;	
pops; hydroge	n (stands alone);	I
e) white pp		
hydroch	IOFIC;	[
		[Total: 1