UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2010 question paper 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.

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Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2010	0653	51
		rawings with sun leaf smaller; ws some detail rather than simple outline e.g. veins	.,	[2]
	acc (the	urate measurement of length of sun leaf from diagra urate measurement of length of shade leaf from dia ese values should be the maximum possible lengths y ONE mark if in cm	gram +/- 2mm;	[2]
		rea for greater absorption of light (for photosynthesionsay more than just more photosynthesis	s);	[1]
	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 transpira	tion:	[1]
	(II) pic	vents too mach water (vapour) loss due to transpira	uon,	
				[Total: 10]
2	(do not	figures for both (refer to SV); give this mark if in cm) gures correctly;		[3]
	all o d ₂ v if or	e eadings; decreasing; values all less than d ₁ ; nly 4 readings, lose 1 st mark nly 3 readings lose 1 st and 2 nd mark		[3]
	P 4 pc	able scale; pints plotted correctly; t straight line;		[3]
	(d) correct	evaluation;		[1]

[Total: 10]

1

2

Р	age 3	Mark Scheme: Teachers' version	Syllabus	Paper
	•	IGCSE – May/June 2010	0653	51
3 (a)) volume o	of drop between 0.03 and 0.1 cm ³ (inc);		[1]
(b) number o	of drops for X is between 20 and 30; ecrease;		
		of drops approximately halves going down;		[3]
(c)) X is mos	t concentrated because needs most drops (ecf);		[1]
(d	•	relight/extinguish;		
	pops; hydrogei	n (stands alone);		[3]
(e)) white pp hydrochl			[2]
	riyarociii	0110,		

[Total: 10]

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