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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

0653/51

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		qe 2	Mark Scheme: Teachers' version	Syllabus	Vr .	
			IGCSE – May/June 2011	0653	8-	
1	(a)	Page 2 Mark Scheme: Teachers' version Syllabus IGCSE – May/June 2011 0653 (a) 2 readings for inhaled air; (b) 2 readings for exhaled air and average of 2 readings less than average of 2				
	(b) 2 readings for exhaled air and average of 2 readings less than average of 2 readings in (a);					
	(c)	()	average for inhaled air ; average for exhaled air ; inhaled air = higher reading than exhaled air ;		[3]	
			time for atmospheric/inhaled air longer; more oxygen; (reverse argument true) (ignore references to carbon o	dioxide)	[2]	
			exhaled – cloudy and atmospheric/inhaled – clear ; CO_2 linked to cloudiness or to B; respiration/breathe out CO_2 /no CO_2 in A ;		[3]	
				Г	Total: 10]	
					· otali · oj	
2	(a)	meası	urement clearly in mm ;		[1]	
	(b)	force of increase	of results; correct (2.0, 3.0, 4.0, 5.0); use in length greater as goes down; use in length is correct;		[4]	
	(c)		le scale ; g correct for at least 4 points ;		[2]	
	(d)	yes, w	vith suitable explanation ;		[1]	
	(e)	suitab	le straight line or curve drawn related to answer in (d)	· •	[1]	
	(f)	read o	correctly;		[1]	

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[2]

			- 4
Page 3	Mark Scheme: Teachers' version	Syllabus	.0
	IGCSE – May/June 2011	0653	100

3 (a) violet/lilac/purple;

- (b) (i) dissolves in cold water;
 - (ii) brown ppt./orange ppt; litmus red to blue;
 - (iii) red brown ppt./orange ppt; [1]
- (c) sulfate; added barium chloride; [2]
- (d) (any order) iron(III)/Fe³⁺/Fe (III) and valid reason; sulfate/SO₄²⁻ and valid reason; ammonium/NH₄⁺ and valid reason;

[Total: 10]

[3]