UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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0653 COMBINED SCIENCE

0653/05

Paper 5 (Practical Test), maximum raw mark 30

This mark scheme is published as an aid to teachers and students, 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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

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

CIE is publishing the mark schemes for the October/November 2006 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2	1	Mark Scheme Syllabu	
		IGCSE - OCT/NOV 2006 0653	200
1 (a)		sensible starting values for tubes A and B readings have descending values for both tubes, sharp drop to start temperatures for tube B reaching much lower than A	www.papacambridge.co
(b)	(i)	suitable scales with labels correct plotting drawing two smooth curves	[1 [1 [1
	(ii)	B cools faster	[1]
	(iii)	air is trapped air is a poor conductor/good insulator of heat	[1 [1
			[Total 10
2 (a)	(i)	distance of 70 or 71 mm	[1]
		Measurements clearly in mm x values are spaced by 4-6mm y values steadily decrease as x increase	[3
(b)	(i)	Graph Axes labelled correctly Sensible scales chosen Plotting correct Best straight line. This mark not awarded if line is not straight of wrong line. No marks for (b)(ii)	or is the [4
	(ii)	y _o correctly determined value is between 73 and 75 no marks here if the line above line mark is not awarded	[2
			[Total 10
3 (a)		solid A fizzing/effervescence	[1
(b)		solid A no reaction or dissolves solid B red litmus blue, therefore ammonia	[3
(c)		solid B no reaction (allow slight white ppt.) solid C white ppt., soluble in excess	[3
(d)		solid A is an acid because fizzes with sodium carbonate solid B is a base because it liberates ammonia with NH_4^+ solid C is a salt because it precipitates with aq. ammonia or by	J
		deduction	[3