UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2006 question paper

0653 COMBINED SCIENCE

0653/05 Paper 5

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.



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			[1] [1] [1] [1]	
	(b)	(i)	suitable s correct p drawing	[1] [1] [1]	
		(ii)	B cools faster		[1]
		(iii)	air is trap	[1] [1]	
					[Total 10]
2	(a)	(i) distance of 70 or 71 mm			[1]
			Measure x values y values	[3]	
	(b)	(i)	Graph Axes labe Sensible Plotting of Best stra wrong lin	[4]	
		(ii)	y₀ correctivalue is b	[2]	
			no marks	s here if the line above line mark is not awarded	[Total 10]
3	(a)		solid A	fizzing/effervescence	[1]
	(b)		solid A solid B	no reaction or dissolves red litmus blue, therefore ammonia	[3]
	(c)		solid B solid C	no reaction (allow slight white ppt.) 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 be deduction		a base because it liberates ammonia with NH ₄ ⁺ a salt because it precipitates with aq. ammonia or by	[3]	
	acadonom			ری [Total 10]	
					[

Mark Scheme

IGCSE - OCT/NOV 2006

Syllabus

0653

Paper

5

Page 2