

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2009 question paper

for the guidance of teachers

0653 COMBINED SCIENCE

0653/05

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.

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

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UNIVERSITY of CAMBRIDGE International Examinations

	Page 2			Mark Scheme: Teachers' version	Syllabus	Paper		
				IGCSE – May/June 2009	0653	05		
1	 (a) readings reasonable (clearly in mm) and entered correctly in column for tissue A readings reasonable and entered correctly in column for tissue B; value for 5 mins in A must not be greater than 80 mm 							
	(b)	 (b) points plotted accurately for tissue A ; allow one error smooth curve drawn through points ; points plotted accurately for tissue B ; allow one error smooth curve drawn through points ; 						
	(c)	• •		/tissue C ; est rate of production of oxygen ;		[2]		
		 (ii) animals liver has many chemical reactions/produce more hydrogen perox therefore it is removed more rapidly/it is removed before poison build up ; 						
						[Total: 10]		
2	(a)	red,	brov	vn or similar ; allow black if recognizes some brown ا	particles	[1]		
	(b)	(i)	blac	k residue ; if (a) is black then allow black or no chan	ge	[1]		
			gree	olves ; en solution ; s blue ;		[3]		
	(c)	•••		brown ; te is blue ;		[2]		
				k/brown solid ; ur fades to colourless or lighter blue, allow fizzing ;		[2]		
	(d)	cop	ber (do not allow 2^+ oxidation state) do not allow any cop	per compound ;	[1]		
						[Total: 10]		
3	(a) (b) (i) (ii) Table							
	5 sets for h and V ; h clearly in mm 1 st value of h is between 20–40 mm ; last value of h is between 100–140 mm							
	(c)	(c) 100 – V is correct ; assumes V is correct						
	(d)		[2]					

Pa	ige 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2009	0653	05
(e)		w found ; on from candidates figures ;		[2]
(f)		evaluated to at least 1 dp and not more than 2 dp; on corrected figure if necessary, allow 20–23 mm;		[2]
				[Total: 10]