## MARK SCHEME for the May/June 2007 question paper

## **0653 COMBINED SCIENCE**

0653/05

Paper 5 (Practical), 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.

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.

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

CIE is publishing the mark schemes for the May/June 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



UNIVERSITY of CAMBRIDGE International Examinations

	Pa	ge 2	?		Mark S	cheme		Syll	abus	Paper		
				I	GCSE – Ma	y/June 200	7	06	553	5		
1	<ul> <li>(a) bubbles of air appear from lower surface of leaf; gases exit through stomata;</li> </ul>									[2]		
	(b)	(i)	clea with	r drawings; four different	shapes of le	aves clearly	visible and	named;		[2]		
		(ii)	any start split each corre	attempt at pro ing point is 'le into two parts of above sep ect identification	oducing a ke aves' (1) s e.g. edges parated agai on (1)	ey (1) different (1) in (one mark	for each sep	paration) (	2)	[6]		
			do n	do not allow vague terms like longer/shorter, bigger/smaller								
	(an example of a correct answer is shown below)											
		leaves										
					[				1			
			le	af divided into	 ɔ leaflets (pa 	arts)	le	eaf is a sin	 gle structu 	ıre		
			leaflet	ts parallel	leaflets far	) outwards	smooth	edge	prickly ed	ge		
				ash	horse-c	hestnut	willo	w	holly			
										[Total: 10]		
2	(a) sensible value for current correct unit for current								[2]			
	(b) value for current less than in (a)								[1]			
	(c)	(c) (i) sensible value for voltage consistent in reading values e.g. both to 2 dp							[2]			
		(ii)	simil	ar value to <b>(c</b>	) (i)					[1]		
	(d)	(d) (i) R correct for both lamps but must use correct value of I correct unit for resistance							[2]			
		(ii) voltage drop across each lamp and resistance of each is the same within error, therefore lamps are similar. Allow one mark if describes the results							n experimental [2]			
										[Total: 10]		

nge 3	Mark Scheme Syllabus		Paper
	IGCSE – May/June 2007	0653	5
Black po <b>X</b> is more		[2]	
much bu relights oxygen	ibbling		[3]
paper is chlorine	given)	[2]	
(i) blue	e or green		[1]
(ii) blue	e ppt. (not green) insoluble in excess		[2]
			[Total: 10]
	Black pc X is mor much bu relights oxygen paper is chlorine (i) blue	Inge 3       Mark Scheme         IGCSE – May/June 2007         Black powders accept grey and brown         X is more finely divided or equivalent         much bubbling         relights         oxygen         paper is bleached (can't score chlorine mark unless this is generative         (i) blue or green         (ii) blue ppt. (not green) insoluble in excess	Inge 3       Mark Scheme       Syllabus         IGCSE – May/June 2007       0653         Black powders accept grey and brown       X         X is more finely divided or equivalent       much bubbling         relights       oxygen         paper is bleached (can't score chlorine mark unless this is given)       chlorine         (i) blue or green       (i) blue ppt. (not green) insoluble in excess