UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the June 2005 question paper

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 initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

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 discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the June 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Grade thresholds taken for Syllabus 0653 (Combined Science) in the June 2005 examination.

	maximum	minimum mark required for grade:				
	mark available	А	С	Е	F	
Component 5	30	24	17	13	11	

The threshold (minimum mark) for B is set halfway between those for Grades A and C. The threshold (minimum mark) for D is set halfway between those for Grades C and E. The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.

Grade A* does not exist at the level of an individual component.

IGCSE

MARK SCHEME

MAXIMUM MARK: 30

SYLLABUS/COMPONENT: 0653/05

COMBINED SCIENCE Paper 5 (Practical Test)

F	Page	1	Mark Scheme	Syllabus	Paper		
			IGCSE – JUNE 2005	0653	5		
(a)	(i)	good quality diagram, clear, sharp pencil used, reasonable correspondence to supervisor's diagram					
	(ii)	•	abelled correctly s flower in bud		[2]		
(b)	(i)	•	uality diagram of a petal as in (a)(i) above uality diagram of a stamen as in (a)(i) above		[2]		
	(ii)	anther		[1]			
	(iii) reasonable values for lengths (drawn length can be checked and should be within						
	(iv) magnification = <u>length of drawing</u> or evidence of use of formula length of original						
		numeri	ically correct answer		[2]		
					Total 10		
lf aı	nv va	alues ar	e not recorded in mm, apply a penalty of one, but apply	v only once			
	-			y 0y 000			
(b)	(b) height of rule above the floor is 40-50 mm less than $h_{\rm o}$				[1]		
	Table						
	mas	sses to	nearest gram				
	valu	ue of h _o	is realistic, compare to others				
	tota	l mass	correct				
	three values of h besides ho with deflections						
	deflections are correct						
	Graph						
	label for axes and suitable scale						
	plot	lotting correct					
	line	is straight and does or would go through origin					
	proportional (line must be straight for this mark)						
					Total 10		

	Page 2		Mark Scheme	Syllabus	Paper
<u> </u>			IGCSE – JUNE 2005	0653	5
3	attempt to measure temperatures to 0.5 (.0 or .5)				[′
	initial temperatures within table are consistent with each other				[′
	temperature ch	anges	up to 5° +/-1 up to 10° +/-2 up to 20° +/-3 above 20° +/-5		[3
	observation for C correct i.e. spill pops				[′
	Any other correct observation for any other metal e.g. bubbles				[′
	(i) hydrog		['		
	(ii) order correct from the results but C must be first				['
	(iii) suitable observation				[′