

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.



June 2005

IGCSE

MARK SCHEME

MAXIMUM MARK: 30

SYLLABUS/COMPONENT: 0653/05

COMBINED SCIENCE Paper 5 (Practical Test)



	Page 1		1	Mark Scheme	Syllabus	Paper		
				IGCSE – JUNE 2005	0653	5		
1	(a)	a) (i) good quality diagram, clear, sharp pencil used, reasonable corresponden supervisor's diagram						
		(ii)	ii) sepal labelled correctly protects flower in bud					
	(b)	(i)	good q good q		[2]			
		(ii)		[1]				
		(iii)	reasona	should be w	ithin 1 mm) [2]			
		(iv) magnification = <u>length of drawing</u> or evidence of use of formula length of original						
			numeri	cally correct answer		[2]		
						Total 10		
n	lf o			a not recorded in mm, annly a nanalty of and, but annly				
2	li ai	iy va	alues an	e not recorded in min, apply a penalty of one, but apply	y only once			
	(b)	b) height of rule above the floor is 40-50 mm less than h_o				[1]		
		Table						
		mas	sses to i	nearest gram				
		valu	ue of h_o	is realistic, compare to others				
		tota	l mass o	correct				
		three values of h besides $h_{\mbox{\scriptsize o}}$ with deflections		s of h besides h_o with deflections				
	deflections a		ections	are correct		[5]		
		Gra	ph					
		labe	el for ax	es and suitable scale				
		plot	ting cor	rect				
		line	is strai	ght and does or would go through origin		[3]		
		pro	portiona	I (line must be straight for this mark)		[1]		
						Total 10		

	Page 2		Mark Scheme	Syllabus	Paper
			IGCSE – JUNE 2005	0653	5
3	attempt to meas	sure tem	peratures to 0.5 (.0 or .5)		[1]
	initial temperatures within table are consistent with each other				
	temperature cha	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 corre	ct observ	vation for any other metal e.g. bubbles		[1]
	(i) hydrog	en is nai	med		[1]
	(ii) order o	correct fro	om the results but C must be first		[1]
	(iii) suitable	e observ	ation		[1]
					Total 10