#### 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)



Page 1		1	Mark Scheme	Syllabus	Paper		
			IGCSE – JUNE 2005	0653	5		
(a)	(i)	(i) good quality diagram, clear, sharp pencil used, reasonable correspondence to supervisor's diagram					
	(ii) sepal labelled correctly protects flower in bud						
(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	correctly labelled		[1]		
	(iii)	reasona	able values for lengths (drawn length can be checked and	should be wit	thin 1 mm) [2]		
	(iv)	magnif	ication = <u>length of drawing</u> or evidence of use of formu length of original	ıla			
		numeri	cally correct answer		[2]		
					Total 10		
lf a	ov vs	alues ar	e not recorded in mm, apply a penalty of one, but apply	y only once			
				y offig office			
(b)	heig	ght of ru	le above the floor is 40-50 mm less than h <sub>o</sub>		[1]		
	Tab	le					
	mas	sses to	nearest gram				
	valu	ue of h <sub>o</sub>	is realistic, compare to others				
	tota	l mass	correct				
	thre	e value	s of h besides $h_o$ with deflections				
	defl	ections	are correct		[5]		
	Gra	ph					
	labe	el for ax	es and suitable scale				
	plot	ting cor	rect				
	line	is <b>strai</b>	ght and does or would go through origin		[3]		
	pro	portiona	I (line must be straight for this mark)		[1]		
					Total 10		

1

2

		IGCSE – JUNE 2005	0653	5
3	attempt to meas	sure temperatures to 0.5 (.0 or .5)		[1]
	initial temperatu	res within table are consistent with each other		[1]
	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		[1]
	Any other corre	ct observation for any other metal e.g. bubbles		[1]
	(i) hydrog	en is named		[1]
	(ii) order o	orrect from the results but C must be first		[1]
	(iii) suitable	e observation		[1]

Mark Scheme

Syllabus

Paper

Total 10

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