UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the JUNE 2005 question paper

0654 CO-ORDINATED SCIENCES

0654/05 Paper 5 (Practical Test), maximum raw mark 45

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 0654 (Co-ordinated Sciences) in the June 2005 examination.

	maximum mark available	minimum mark required for grade:				
		AA	CC	EE	FF	
Component 5	45	36	27	19	14	

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.

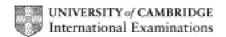
IGCSE

MARK SCHEME

MAXIMUM MARK: 45

SYLLABUS/COMPONENT: 0654/05

CO-ORDINATED SCIENCES
Paper 5 (Practical Test)



Page 1		1	Mark Scheme			Syllabus	Paper
			IGCSE -	- JUNE 2005		0654	5
(a)	(i)	•	uality diagram, clear, sor's diagram	sharp pencil	used, reasor	nable corres	spondence to [1]
	(ii)	•	belled correctly flower in bud				[2]
(b)	(i)	good g	uality diagram of a petal a	as in (a)(i) abo	ove		
()	()		uality diagram of a stame				[2]
	(ii)	anther	correctly labelled				[1]
	(iii)		ble values for lengths (dragive this mark if X is not				
	(iv)	magnif	cation = <u>length of drawin</u> length of origina		of use of form	ula	
		numeri	cally correct answer				[2]
(c)	any suitable feature e.g. brightly coloured petals, large petals, anthers and stigma inside flower						
		•	ng explanation e.g. brigl r so insects brush agains	• .	etals attract ins	ects, reprod	uctive organs
(d)			tals and grind up (with w	ater)			
			ndicates reducing sugar				[3]
							Total 15
lf aı	าง งะ	alues ar	not recorded in mm, ap	nly a nenalty (of one but ann	ılv only once	
	•					ny orny orioo	
(D)			e above the floor is 40-50	o mm iess ina	an n _o		[1]
	Tab	ole					
	mas	sses to	earest gram				
	valu	ue of h _o	s sensible and fits value	in (b)			
	eac	h mass	of plasticine is similar (if	all the same,	do not give this	s mark)	
	tota	l mass	orrect				
	four	· values	of h besides h _o with defle	ections, so lon	g as h decreas	ses	
	defl	ections	are correct				[6]

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Page 2	Mark Scheme Syllab	ous Paper			
	IGCSE – JUNE 2005 065	4 5			
Grap	h				
axes	correct, labelled with units				
suital	ple scale				
plottii	plotting correct				
line is	s straight and does or would go through origin	[4]			
(h) c	one for each correct reading (only if line is straight)	[2]			
(i) p	proportional	[1]			
(j) t	ney would be smaller	[1]			
		Total 15			
(a)-(e)					
at least or	ne temperature is measured to 0.5 (.0 or .5)	[1]			
initial tem	peratures within are consistent with each other	[1]			
temperatu	ure changes up to 5° +/-1 up to 10° +/-2				
	up to 10 1/-2 up to 20° +/-3				
	above 20° +/-5	[4]			
observation	on for C correct i.e. spill pops	[1]			
Any other	correct observation for any other metal e.g. bubbles	[1]			
(f) (i) h	ydrogen is named	[1]			
(ii) c	only acceptable answer is C	[1]			
(iii) t	wo reasons given, one for each	[2]			
	inswer to tie in with results but C must be first and D last unleadicated otherwise	ss supervisor has [1]			
(g) put E	into aqueos CuSO ₄ if reaction etc. OR if not reaction etc.	[2]			

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