

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

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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.



June 2005

IGCSE

MARK SCHEME

MAXIMUM MARK: 45

SYLLABUS/COMPONENT: 0654/05

CO-ORDINATED SCIENCES Paper 5 (Practical Test)

	Page	1			rk Schem			Syllabu	.A.	
				IGCSE	– JUNE 2	2005		0654	103	2
(a)	(i)	-	quality diagrar isor's diagram	n, clear,	sharp p	oencil use	d, reason	able corr	espon	ambr
	(ii)	•	abelled correctl s flower in bud	У					Mm. Papar espon	[2]
(b)	(i)		uality diagram uality diagram				e			[2]
	(ii)	anther	correctly labell	ed						[1]
	(iii)		able values for l give this mark	- ·						,
	(iv)	magnif	ication = <u>length</u> length	<u>n of drawi</u> n of origin		dence of us	se of form	ula		
		numeri	cally correct ar	iswer						[2]
(c)	any flow		e feature e.g. b	rightly c	oloured p	etals, large	e petals, ai	nthers and	d stigma	inside
			ing explanation er so insects br				attract inse	ects, repro	oductive o	organs [2]
(d)			etals and grind		water)					
			ict's solution an ndicates reduc		-					[3]
									То	tal 15
lf a	ny va	alues ar	e not recorded	in mm, a	pply a pe	nalty of one	e, but appl	y only ond	ce	
(b)	heig	ght of ru	le above the flo	oor is 40-	50 mm le	ss than h_{o}				[1]
	Tab	le								
	mas	sses to I	nearest gram							
	valu	ie of h_o	is sensible and	fits value	e in (b)					
	eac	h mass	of plasticine is	similar (i	f all the s	ame, do no	ot give this	mark)		
	tota	l mass (correct							
	four	values	of h besides h	with def	lections,	so long as	h decreas	es		
	defl	ections	are correct							[6]

Page 2	Mark Scheme Sylla	bu ??
	IGCSE – JUNE 2005 065	54 23
Graph		Phil
axes cor	ect, labelled with units	WWW. Papacambi
suitables	scale	
plotting c	orrect	
line is st i	aight and does or would go through origin	[4]
(h) one	for each correct reading (only if line is straight)	[2]
(i) prop	ortional	[1]
(j) they	would be smaller	[1]
		Total 15
a)-(e)		
t least one t	emperature is measured to 0.5 (.0 or .5)	[1]
nitial tempera	atures within are consistent with each other	[1]
emperature o	changes up to 5° +/-1 up to 10° +/-2 up to 20° +/-3	
	above 20° +/-5	[4]
bservation f	or C correct i.e. spill pops	[1]
ny other cor	rect observation for any other metal e.g. bubbles	[1]
f) (i) hydr	ogen is named	[1]
(ii) only	acceptable answer is C	[1]
(iii) two	easons given, one for each	[2]
• •	ver to tie in with results but ${f C}$ must be first and ${f D}$ last unleased otherwise	ess supervisor has [1]
g) put E into	aqueos CuSO ₄ if reaction etc. OR if not reaction etc.	[2]
		Total 15