

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	mir	nimum mark re	equired for gra	de:
	mark available	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	e 1	Mark Scheme Syllabu	Par l
			IGCSE – JUNE 2005 0654	Pac.
(a)	ı) (i)	-	quality diagram, clear, sharp pencil used, reasonable corresp <i>i</i> isor's diagram	non emph
	(ii)	•	labelled correctly ts flower in bud	Papacambri [2]
(b) (i)		quality diagram of a petal as in (a)(i) above quality diagram of a stamen as in (a)(i) above	[2]
	(ii)	anther	correctly labelled	[1]
	(iii)		nable values for lengths (drawn length can be checked and should be v t give this mark if X is not marked. Penalty if measured in units other	,
	(iv)) magnif	fication = <u>length of drawing</u> or evidence of use of formula length of original	
		numer	ically correct answer	[2]
(c)		y suitabl wer	e feature e.g. brightly coloured petals, large petals, anthers and s	itigma inside
		•	ding explanation e.g. bright or large petals attract insects, reprodu- er so insects brush against them etc.	ctive organs [2]
(d		• •	etals and grind up (with water)	
			lict's solution and heat indicates reducing sugar	[3]
				Total 15
١f	any v	alues ar	re not recorded in mm, apply a penalty of one, but apply only once	
(b) hei	ight of ru	lle above the floor is 40-50 mm less than h_o	[1]
	Ta	ble		
	mə	asses to	nearest gram	
	val	lue of h_o	is sensible and fits value in (b)	
	ead	ch mass	of plasticine is similar (if all the same, do not give this mark)	
	tota	al mass	correct	
	fou	ır values	s of h besides h_o with deflections, so long as h decreases	
	deſ	flections	are correct	[6]

Page 2	Mark Scheme Syllat	
	IGCSE – JUNE 2005 065	4 1030
Graph		amp
axes corre	ect, labelled with units	Manay, Dana Campi
suitable s	cale	
plotting co	rrect	
line is str a	light and does or would go through origin	[4]
(h) one f	or each correct reading (only if line is straight)	[2]
(i) propo	rtional	[1]
(j) they	vould be smaller	[1]
		Total 15
(a)-(e)		
	mperature is measured to 0.5 (.0 or .5)	[1]
nitial tempera	tures within are consistent with each other	[1]
emperature c		
	up to 10° +/-2 up to 20° +/-3	
	above 20° +/-5	[4]
observation fo	r C correct i.e. spill pops	[1]
Any other corr	ect observation for any other metal e.g. bubbles	[1]
(f) (i) hydro	gen is named	[1]
(ii) only a	acceptable answer is C	[1]
(iii) two re	easons given, one for each	[2]
• •	er to tie in with results but C must be first and D last unle ted otherwise	ss supervisor has [1]
(g) put E into	aqueos CuSO ₄ if reaction etc. OR if not reaction etc.	[2]
		Total 15