UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 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*.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

• CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Page 1		/llabu	
		IGCSE – OCTOBER/NOVEMBER 2005	0654	
Questi	on 1		Allabu 0654 Abacamb	
(a)(i)	goes blue/black; starch present;			
(ii)	stays blue / very slight change to green; no / very little reducing sugar present;			
(b)(i)	red colour observed; reducing sugar present;			
(ii)	no/ very little reducing sugar present in seeds sample A ; reducing sugar present in germinated seeds sample B ; sugar is needed for respiration / energy for growth; starch broken down to sugar in seeds; by enzymes;			
		uced by shoots/coleoptiles/leaves (if present);	[4 max]	
(c)(i)	colour observed is brown; no starch present;			
(ii)	yes; all living cells contain protein; (however, if the candidate has actually done this test it will come out negative because there is not enough protein to give a positive reaction, so if the candidate writes: no; there is not enough protein to show a positive reaction; they should be given 2 marks)			
(iii)	the biuret te	set.	[1]	
(,		51,	[Total: 15]	
Questi	on 2		[10.00.10]	
Table i	s neatly draw	n showing all results		
Each c	olumn correc	lly headed		
Mass ir	n whole numb	ers of gms		
Masse	s are about 10) g apart		
Times ;	are recorded	to whole no. of seconds		
Time for 1 swing is correct			[6]	
nine it				
(c)	Length is re	corded between 450 and 550 mm	[1]	

	Page 2		Syllaba
		IGCSE – OCTOBER/NOVEMBER 2005	0654
Graph			and.
axes co	orrect		1
scale is	sensible		Syllaba 0654 Anacampril
plotting	correct		
line is s	straight (horizo	ontal)	[4]
(i)	makes no difference		[1]
(j)	change length of string several times measure time as before		[2]
Questi	on 3		
(a)(i)	turns yellow		[1]
(ii)	white		[1]
(iii)	limewater m litmus no ch		[2]
(iv)	carbon dioxi	de because limewater milky	[1]
(v)	A is a carbo	nate	[1]
(b)	add acid (on	e) effervescence (one)	[2]
(c)(i)	goes white (three suitabl	ie) [3]	
	glowing splir	nt does not relight	
	moist blue lit	tmus turns red	[2]
(d)	add sodium	hydroxide (one) maybe blank dirty green ppt.(one)	[2]