Www.xtrapapers.com

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

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.

www.xtrapapers.cor

[1]

[1]

			2			
	Page 1	Mark Scheme	Syllabu			
		IGCSE – OCTOBER/NOVEMBER 2005	0654			
Question 1						
(a)(i)	Page 1 Mark Scheme Syllabu IGCSE – OCTOBER/NOVEMBER 2005 on 1 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;		[2]			
(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; sugar produced by shoots/coleoptiles/leaves (if present); [4 max]					
(c)(i)	colour obse	erved is brown; resent;	[2]			
(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) [2]					
(iii)	the biuret to	est;	[1]			
			[Total: 15]			
Questi	on 2					
Table is neatly drawn showing all results						
Each column correctly headed						
Mass in whole numbers of gms						
Masses are about 10 g apart						
Times	Times are recorded to whole no. of seconds					
Time for 1 swing is correct [6						

Length is recorded between 450 and 550 mm

(c)

(g)

more accurate

[2]

Page 2	Mark Scheme	Syllabu
	IGCSE – OCTOBER/NOVEMBER 2005	0654

Graph

(d)

			www.xtrapapers.com		
	Page 2	Mark Scheme IGCSE – OCTOBER/NOVEMBER 2005	Syllabu 0654 Ahar Cannanage Conn		
Graph	S. Cally				
axes co	orrect	Tage			
scale is	sensible	· COM			
plotting correct					
line is straight (horizontal)			[4]		
(i)	makes no d	difference	[1]		
(j)		gth of string several times ne as before	[2]		
Question 3					
(a)(i)	turns yellow	V	[1]		
(ii)	white		[1]		
(iii)	limewater n litmus no ch		[2]		
(iv)	carbon diox	kide because limewater milky	[1]		
(v)	A is a carbo	onate	[1]		
(b)	add acid (o	ne) effervescence (one)	[2]		
(c)(i)		(one) water evolved (one) smoke (one) goes brown (or ble observations required	ne) [3]		
	glowing spl	int does not relight			
	moist blue I	litmus turns red	[2]		

add sodium hydroxide (one) maybe blank dirty green ppt.(one)