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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the November 2005 question paper

0653 COMBINED SCIENCE

0653 Paper 5 maximum raw mark 30

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*.

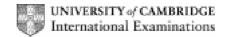
All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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 November 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 1	Mark Scheme	Syllabus	Paper
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1	(a)	(i)	goes blue/black starch present	2
		(ii)	stays blue/very slight change to green no/very little reducing sugar	2
	(b)	(i)	red colour observed reducing sugar present	2
			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
				total 10
2	(a)(c)(c	d)(e)	Mass in whole numbers of gms	
			Masses are about 10 g apart	
			Times are recorded to whole number of seconds	
			Time for 1 swing is correct	4
	(b)		Length is recorded between 450 and 550 mm	1
	(f)		Graph axes correct	
			scale is sensible	
			plotting correct	
			line is straight (horizontal)	4
	(g)		makes no difference	1
				total 10

Page 2	Mark Scheme	Syllabus	Paper
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3	(a)	(i)	turns yellow	1
		(ii)	white	1
		(iii)	limewater milky	1
		(iv)	carbon dioxide because limewater milky	1
		(v)	A is a carbonate	1
	(b)	(i)	goes white (1) water evolved (1) smoke (1) goes brown (1) two suitable observations required	max 2
		(ii)	moist blue litmus turns red	1
	(c)		add sodium hydroxide (1) dirty green ppt (1)	2