UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2008 question paper

0654 CO-ORDINATED SCIENCES

0654/05

Paper 5 (Practical), maximum raw mark 45

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

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 discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 2		2	Mark Scheme	Syllabus	Paper
				IGCSE – May/June 2008	0654	05
1	(a)	(i)	_	d quality drawing, sharp pencil, clear outline; es obviously wilted or 1 or more leaves partially sha	ded	[2]
		(ii)	wate	of water (1) er lost from leaves by <u>evaporation/transpiration;</u> water not replaced through stem;		[2]
	((iii)	stem	n of twig clearly shaded in; (may include part of leaf)		[1]
	((iv)		d/lignin provides support; rides support even when water is scarce;		[2]
	(b)	•	•	ality drawing, sharp pencil, clear outline; early labelled in at least one place;		[2]
	(c)	(i)	wind	speed /humidity/light intensity/availability of water		[1]
		(ii)	•	n environments of different temperatures; ixed time;		
			cut t	through stalks to see how high the dye has travelled est rate will be highest up the stalk;	;	[4]
	((iii)	phot	cosynthesis/turgor/transport (of minerals)		[1]
						[Total: 15]
2	(a)	Cor Mas	ue for mplete ss cor	r h _o must be in mm e set of readings for 1 st three columns (check they a rrectly converted to Newtons n correct for each set	re sensible)	[4]
	(b)	(b) axes correctly labelled lose this mark if masses are plotted scale is sensible plotting correct ignore zero line is OK and it must pass through zero		[4]		
	(c)			rom graph Newtons and read correctly		[2]
	(d)	yes	s, (1) s	straight line shows proportionality (1)		[2]
	(e)	see	whet	er masses ther line departs from straight raph this must show steep rise in extension for sma	all increase in force	[3]

[Total: 15]

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2008	0654	05
(a) (i) and	(ii) A and C no reaction (A may give small amound B fizzes	t of bubbles)	[2]
(b) (i) and	(ii) A and C blue ppt. or equivalent B no reaction/blue solution		[2]
(c) A & B no C milk	o reaction y, cloudy etc		[2]
(d) (i) fizzi	ng		
(ii) whit	e ppt./cloudy/milky		[2]
B is sulp C is lime	ium carbonate huric acid ewater rrect reason		[1] [3]
to turn ir	to each ops or measure ndicator colour ncentrated is one requiring most acid		[3 max]

[Total: 15]

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