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.

[Total: 15]

	Page 2		Mark Scheme	Syllabus	abus er	
			IGCSE – May/June 2008	0654	Apr.	
1	(a) (i)		d quality drawing, sharp pencil, clear outline; res obviously wilted or 1 or more leaves partially sha	ded	O ADAC AMBRIDGE	
	(ii)	wate	of water (1) er lost from leaves by <u>evaporation/transpiration;</u> water not replaced through stem;		[2]	
	(iii)	sten	n of twig clearly shaded in; (may include part of leaf)		[1]	
	(iv)		od/lignin provides support; vides support even when water is scarce;		[2]	
			ality drawing, sharp pencil, clear outline; early labelled in at least one place;		[2]	
	(c) (i)	winc	d speed /humidity/light intensity/availability of water		[1]	
	(ii)		in environments of different temperatures;			
		cut t	ixed time; through stalks to see how high the dye has travelled est rate will be highest up the stalk;	;	[4]	
	(iii)	phot	tosynthesis/turgor/transport (of minerals)		[1]	
					[Total: 15]	
2	Co Ma	lue for implet ass co	r h _o must be in mm te set of readings for 1 st three columns (check they a prectly converted to Newtons on correct for each set	re sensible)	[4]	
	sca plo	ale is sotting o	rrectly labelled lose this mark if masses are plotted sensible correct ignore zero		[A]	
			K and it must pass through zero rom graph		[4]	
	ma	ass to	Newtons and read correctly		[2]	
	(d) yes	s, (1) s	straight line shows proportionality (1)		[2]	
	se	e whe	er masses ther line departs from straight raph this must show steep rise in extension for sma	all increase in force	[3]	

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Page 3	Mark Scheme	Syllabus	er
	IGCSE – May/June 2008	0654	abs.

3 (a) (i) and (ii) A and C no reaction (A may give small amount of bubbles) B fizzes

(b) (i) and (ii) A and C blue ppt. or equivalent B no reaction/blue solution

[2]

(c) A & B no reaction C milky, cloudy etc

[2]

(d) (i) fizzing

(ii) white ppt./cloudy/milky

[2]

(e) A is sodium carbonate

B is sulphuric acid

C is limewater

[1]

Each correct reason

[3]

(f) add acid to each count drops or measure to turn indicator colour most concentrated is one requiring most acid

[3 max]

[Total: 15]