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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.

	<u> </u>		IGCSE – May/June 2008	0654	Sp.
(a)	(i)	_	d quality drawing, sharp pencil, clear outline; es obviously wilted or 1 or more leaves partially sha	nded	and Cambridge
	(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)		d/lignin provides support; vides 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	d speed /humidity/light intensity/availability of water		[1]
	(ii)	•	in 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	tosynthesis/turgor/transport (of minerals)		[1]
					[Total: 15]
(a)	Cor	ue foi npleto ss co	r h _o must be in mm e set of readings for 1 st three columns (check they a rrectly converted to Newtons on correct for each set	are sensible)	[4]
(b)	sca plot	le is s ting c	rectly labelled lose this mark if masses are plotted sensible correct ignore zero K and it must pass through zero		[4]
(c)			rom graph Newtons and read correctly		[2]
(d)	yes	, (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]

Mark Scheme

Page 2

1

2

Syllabus

[Total: 15]

Page 3	Mark Scheme	Syllabus
	IGCSE – May/June 2008	0654
(a) (i) and	(ii) A and C no reaction (A may give small amount B fizzes	Syllabus 0654 of bubbles)
(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 xy, cloudy etc	[2]
(d) (i) fizzi	ing	
(ii) whit	te ppt./cloudy/milky	[2]
B is sulp C is lime	ium carbonate bhuric acid ewater errect reason	[1] [3]
count dr	d to each ops or measure	

3

to turn indicator colour

most concentrated is one requiring most acid

[3 max]

[Total: 15]