UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATION

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2007 questi



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 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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Page 2)	Mark Scheme							· S.	
			IGCS	E – May/June	e 2007				200	1
(a) (i)	good	d quality	drawing of	leaf showing	detail of veir	ns clearly			PapaCan	Br.
(ii)	clea	r label to	o any vein,	including peti	iole, labelled [•]	Т;				'age
(iii)	upper surface is a darker (green) than lower surface; more chlorophyll/chloroplasts present;									
air	or oth	er name		surface of lea esent inside	af; (this is ess leaf;	ential)				[3]
(c) (i)				es of leaves of	clearly visible	and nam	ned;			[2]
(ii)	start split each	ing poin into two of abo		(1) edges differe ed again (one	nt (1) mark for eac	h separa	ation) (2)			[6]
do not allow vague terms like longer/shorter, bigger/smaller										
	(an e	example	e of a correc	ct answer is s	shown below)					
				le	eaves					
lea	ıf divid] ded into ا	leaflets (pa	arts)		leaf is a	a single st 	tructure	•	
ا leaflets 	parall	el	leaflets far	n outwards	smoot	h edge	- '	prickly	 / edge 	
as	h		horse-c	hestnut	wil	∣ Iow		ho	l lly	

[Total: 15]

Page 2	Mark Scheme	20
Page 3	IGCSE – May/June 2007	8
	ole value for current ct unit for current	A. P. BRAC CAMBRIDGE COM
(b) value	for current less than in (a)	COM
	ensible value for voltage onsistency of readings i.e. same no. of sig figs	
(ii) s	imilar value to (c)(i) unless help given in setting up	[1]
`´´`R	se of V/I for both lamps correct for both lamps (must use 2 nd value of I) correct unit for resistance	[3]
` ,	omments on V and R for each lamp (1) within experimen imilar	ntal error, therefore lamps are [2]
a	amps correctly placed mmeter correctly placed circuit does not work then no marks	[2]
` ,	when in parallel the resistance is less (1) or greater current therefore lamps brighter (1)	[2]
		[Total: 15]

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Page	4	Mark Scheme	.0
		IGCSE – May/June 2007	2000
		wders allow grey or brown for one of these e finely divided or comment to differentiate	W. PapaCambride
(b) (i)) sma	Il amount of bubbles (must be a difference to (ii))	
(ii)	relig	h bubbling hts jen (tied to relights)	
(iii)) solic	Υ	[1]
` ' '	•	bleached NOT red (tied to bleached)	[2]
(d) (i)) blue	or green	[1]
(ii)) blue	ppt. (1) insoluble in excess (1)	[2]
(e) co	pper o	xide	[1]
(f) us	se of ar	mmonia to produce dark blue solution	[2]
			[Total: 15]