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CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2013 series

0653 COMBINED SCIENCE

0653/53

Paper 5 (Practical Test), maximum raw mark 30

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, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2		Mark Scheme	Syllabus	Paper			
			IGCSE – May/June 2013	0653	53			
1	(a) (i)	_	large, neat pencil drawing ; drawing clearly shows petals, stamens, carpel ;					
	(ii)		stamen and carpel correctly labelled; stamen marked as male and carpel marked as female;					
	(iii)		r pencil drawing of carpel in section; two of the following correctly labelled-ovary, ovary	/carpel wall, ovule	e; [2]			
	(b) (i)	peta	l drawing in left of Table 1.1 showing colours ;		[1]			
	(ii)	•	petal drawing in right of Table 1.1 showing colours plus green/yellow/orang-red/brown;					
	(iii)	(red	[1]					
	(iv)	insects will visit flower to collect sugar/sugar or glucose or nectar will attract insects;						
					[Total: 10]			
2	(a) (i)	x va	lue for 60g recorded in the range 25-50 cm ;		[1]			
	(ii)	x va	lue for 70g recorded to 1 decimal place;		[1]			
	(iii) r		remaining values of <i>x</i> recorded and values of <i>x</i> decreasing down the table ;					
	(iv)	1/ <i>x</i> v	values calculated correctly; (allow more than 2 d.p.)	[1]			
	(b) (i)	by a	able choice of scales with vertical axis starting at 60 t least 2 cm;		ented			
	•		ints out of 4 plotted correctly to half a small square d best fit straight line judgement;	,	[3]			
	(ii)		cation on graph of how data obtained ; ect calculation of gradient ;		[2]			
	(c) co	[1]						
					[Total: 10]			

	Page 3		Mark Scheme	Syllabus	Paper
	_		IGCSE – May/June 2013	0653	53
3	(a) (i)	time	value for 10 cm ² of A ;		[1]
	(ii)	time	value for 8 cm ³ of A ;		[1]
	(iii)	all ti	plete set of time values ; me values to nearest second (whole number) ; es of time increase down the table ;		[3]
	(b) (i)	all 1	/time values correct (2 decimal places or more);		[1]
	(ii)	poin	e–uniform and numbered for both axes ; ts–3 points plotted correctly within half a square ; –best straight line <u>through origin</u> ;		[3]
	` ' '	portions of	onal/rate increases as (volume of) A increases ; (igretime)	nore conclusions in	[1]