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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

0610 BIOLOGY

0610/53

Paper 5 (Practical Test), maximum raw mark 40

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 must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0610	53

	Page 2 Mark Scheme: Teachers' IGCSE – May/June 2			Syllabus Paper 0610 53
Question	Mark Scheme		Mark	Guidance I = ignore A = accept R = reject
(a) (i) lines clearly divide columns; lines clearly divide rows; headings; Units only in headings;		[4]	Syllabus Paper 0610 53 Guidance I = ignore A = accept R = reject	
(ii)	overall decrease in both to 6 results in test-tube A ; 6 results in rest-tube B ;	ubes ;	Max [3]	
(iii)	A – axes labelled with su S – size; P – plots accurate; L – line;	table scale ;		must fill at least half the grid +/- 1 mm A point to point / smooth curve / line of best fit
	K – key / means to identif	y both lines ;	[5]	
(b)			Max [3]	Allow ecf from candidates results
(c)	two suitable sources of e two suitable improvemen		[4]	Must relate to the method in the question. Improvement must relate to error.
(d)	<u>25</u> ;		[1]	
(e)	Correct lines and labels thair follicle;	o:		
	fatty tissue ;		[2]	

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						Paper 53
		Page 3	Mark Scheme: Teac IGCSE – May/Ji		Syllabus 0610	Paper 53
			1000L - may/or	une 2012	0010	33
	(f) (i)	length of line PQ on Fig.1	3 = 80 mm;	[1]	+/- 1 mm / 79 - 81	
	(ii)	formula – <u>length of PQ</u> ; actual length magnification = 20;		[2]	A Ecf from f(i)	
	(g)	cobalt chloride paper; (blue to) pink;		[2]		
				[Total: 27]		
2	(a)	5 petals ; shape ; detail – attachment / hone	y guides / veins / AW ;	[3]	Check against Sup	ervisor's Report
	(b)	Outline: use of single clear Size: at least half of the s Detail: sepals or receptace	pace available ;		R shading / cross h	natching
		Label: stigma and style ;		[4]		
	(c)	one from: large, (brightly) coloured of petals; honey guides; central or enclosed stigmatenclosed stamens;	·	Max [1]		
	(d)	Seed = ovule ; Fruit = ovary (wall) ;		[2]		

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	Page 4	Mark Scheme: Teachers' version Syl			Paper	Paper 53
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(e)	three from: feathery stigma; light pollen; exposed stigma and style a lot of pollen produced;	;	Max [3]			
			[Total: 13]			

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