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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

0610/52

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.

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	Page 2	Mark Scheme: Teachers' version IGCSE – May/June 2012				Syllabus Paper 0610 52
Question	Mai	k Scheme	Mark	Guidance I = ignore A = accept R = reject		
l (a) (i)	lines clearly divide colum lines clearly divide rows ; headings ; Units only in headings ;		[4]	Syllabus Paper 0610 52 Guidance I = ignore A = accept R = reject		
(ii)	overall decrease in both t 6 results in test-tube A ; 6 results in rest-tube B ;	ubes ;	Max [3]			
(iii)	A – axes labelled with sur S – size; P – plots accurate; L – line;	accurate;		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)	Description overall temperature decre test-tube A greater loss in			Allow ecf from candidates results		
		rs of paper in test-tube B ; or / poor conductor of heat ; AW	Max [3]			
(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 to	o:				
	hair follicle;					
	fatty tissue ;		[2]			

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				Call
	(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		A Ecf from f(i)
		magnification = 20 ;	[2]	
	(g)	cobalt chloride paper ; (blue to) pink ;	[2]	
			[Total: 27]	
2	(a)	5 petals ; shape ; detail – attachment / honey guides / veins / AW ;	[3]	Check against Supervisor's Report
	(b)	Outline: use of single clear lines for drawing;		R shading / cross hatching
		Size: at least half of the space available; Detail: sepals or receptacle shown;		
		Label: stigma and style ;	[4]	
	(c)	one from: large, (brightly) coloured or conspicuous flower; petals; honey guides; central or enclosed stigma and style; enclosed stamens;	Max [1]	
	(d)	Seed = ovule ; Fruit = ovary (wall) ;	[2]	

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	. ugo .	IGCSE – May/June		0610	52	apar a
(e)	three from: feathery stigma; light pollen; exposed stigma and style a lot of pollen produced;	;	Max [3]			www.PapaCambridge
			[Total: 13]			