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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

0610/62

Paper 6 (Alternative to Practical), 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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## Mark schemes will use these abbreviations:

- ; separates marking points
- / alternatives
- R reject
- A accept (for answers correctly cued by the question, or guidance for examiners)
- AW alternative wording (where responses vary more than usual)
- underline actual word given must be used by candidate (grammatical variants excepted)
- D, L, T, Q quality of drawing / labelling / table / writing as indicated by mark scheme
- max indicates the maximum number of marks that can be given

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	Page 3	Mark Scheme: Teachers' ve IGCSE – May/June 2012		Syllabus 0610	Paper 62	W. PapaCambridge.
Question Mark scheme		Mark		Guidance	SHAPE.	
(a)	(lemon juice is) acid(ic);		[1]			ale
(b)	no colour change / less colour change in dish 2;		Max [1]			
(c) (l)	lemon juice is acidic;					
	denature enzyme ;					
	browning does not happe	en;	[3]			
(ii)	Method: put apples in high or very	low temperature ;				
	Result: no or less colour change	/ not or less brown ;				
	Explanation: high temperatures denation inactivate enzymes / stop	ure enzymes OR cold temperatures os enzyme activity ;	[3]			
(d) (l)	Comparative colour chan cut surface goes darker b	ge prown / greater colour change ;				
	Speed of reaction cut surface turns brown r	nore quickly ;	[2]			
(ii)	cells separated and cont	ents remain intact	[1]			
			[Total: 11]			

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	Page 4 Mark Scheme: Teachers' ve IGCSE – May/June 201			Syllabus 0610	Paper 62
2 (a)	Outline: use of single clear lines for drawing;  Size: head larger than head in photograph at least half of space available;  Detail: two details from pair of antennae or pair eyes in correct position; pair of mandibles / mouth parts;  Label 1 label mark only: one from eye / antenna / jaws or mouth or mandibles AW;		[5]	R shading / cros	Paper 62 ss hatching(including eyes)
(b) (l)	insects / Insecta;	,	[1]		
(ii)	body divided into 3 parts of abdomen; three pairs of legs;	or sections / head, thorax and	[2]		
(c) (i)	reducing sugar test: crush / mix with water / A\ add Benedict's solution; heat; starch test: add iodine solution;	d starch test reagents <b>only</b> ;  W;  ab. coat AW / tongs / heat in water	[6]		

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	Page 5	Mark Scheme: Teachers' v		Syllabus	Paper 62	Tag .
		IGCSE – May/June 20	12	0610	62	AG.
(ii)	Observation for reducing to green / yellow / orange					www.PapaCambridge
	Observation for starch test to blue / black;	et:	[2]			
(d)	OR one container / choice chaplantain / AW;  controlled variable: idea of same time period / collecting results: record number flies seen and plantain AW;  conclusion: if more flies in banana tha	banana, one with plantain / AW; amber containing banana AND / same mass fruit; / find change in mass of banana an plantain it is preferred fruit and ass in mass of preferred fruit and	Max [3]			
			[Total: 19]			

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3 (a) (i)	A filament; B anther; C style; D stigma;	[4]	OH DIT
(ii)	B;	[1]	
(iii)	D;	[1]	
(iv)	large petals / honey or nectar guides ;	[1]	
(b)	20 ; actual length = length of pollen grain in diagram; magnification		
	actual length = 0.1;	[3]	
		[Total: 10]	

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