UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2006 question paper

0610 BIOLOGY

0610/05

Paper 5, maximum raw mark 40

MMM. Hiremepapers.com

These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

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*.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

• CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2006 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



UNIVERSITY of CAMBRIDGE International Examinations

	Page 1			Mark Scheme	Syllabus	Paper						
				IGCSE – May/June 2006	0637	01						
1	(a)	(i)	use of table units ;	f ruled lines for columns and rows ; headings ; ;			3					
		(ii)	initial temperature <u>and</u> final temperature recorded ; rise in temperature recorded ; mass of S1 <u>and</u> volume of water recorded ;									
		(iii)	rise in temperature substituted ; other values substituted ; correct value calculated ;									
		(iv)	answe	answer to (iii) divided by 1000 ;								
	(b)	(i)	heat, escapes to surroundings / does not all go to heating water ; food does not all burn ; gives lower estimate ;									
		(ii)	sugge sugge grind repea	estion to direct heat ; estion to insulate test tube ; food ; ts and averages ;			max 2					
	(c)	(i)	answe	er to (a)(iv) entered into table ;			1					
		(ii)	bar ch axes l data p ruler u	nart ; labelled with units ; blotted accurately ; used and gaps between columns ;			4					
		(iii)	fat ; linkinų reaso	g S1 value to the nearest food value ; n for value not being exact ;			max 2					
						[Tot	tal : 21]					

	Pag	e 2		Mark Scheme	Syllabus	Paper	
				IGCSE – May/June 2006	0637	01	
(a)	(i)	Drawi	ng ~	clear outline S2 ; at least 10cm in one direction ; cotyledon or remains of seed shown ; root and shoot shown ;			
		Label	s ~	cotyledon / remains of seed ; shoot ; root ;			max 6
	(ii)	length and c	n of dra lear m	awing measured correctly (+/- 2mm) with units reasurement line shown ;			
		<i>corre</i> "draw correc	ct ans ing ler ct x ma	s wer = 2 ticks = 2 marks ngth ÷ specimen length" ; agnification ;			3
(b)	(i)	S3 is paler taller	~ ; / longe	er stem ;			2
	(ii)	light r lack o light ii ref. au AVP ;	needeo of , ligh nhibits uxins ;	t to make chlorophyll ; t / chlorophyll ; growth ; (<i>R</i>) <i>'growing up towards the light'</i>			max 2
(c)	see on i rem klin con one mol pra rep	edling / its side iove th ostat / trol ; on its nitor cu ctical d eats ;					
	use of different AVP ;			species;			max 6
						IT a	4al - 401

[Total : 19]