## 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

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.



		Page	e 1	Mark Scheme	Syllabus	Paper	
				IGCSE – May/June 2006	0637	01	
1	(a)	(i)	use of table units ;		3		
		(ii)	rise in	temperature <u>and</u> final temperature recorded ; n temperature recorded ; of <b>S1</b> <u>and</u> volume of water recorded ;			3
		(iii)	rise in other correc		3		
		(iv)	answe	er to (iii) divided by 1000 ;			1
	(b)	(i)	food c	escapes to surroundings / does not all go to heating wa does not all burn ; lower estimate ;	ater ;		max 2
		(ii)	sugge grind	estion to direct heat ; estion to insulate test tube ; food ; its and averages ;			max 2
	(c)	(i)	answe	er to (a)(iv) entered into table ;			1
		(ii)	data p	nart ; labelled with units ; blotted accurately ; used and gaps between columns ;			4
		(iii)	-	g <b>S1</b> value to the nearest food value ; n for value not being exact ;			max 2
						[Tot	tal : 21]

Pag	Page 2		Mark Scheme	Syllabus	Paper	
			IGCSE – May/June 2006	0637	01	
(a) (i)	Drawing ~		clear outline <b>S2</b> ; at least 10cm in one direction ; cotyledon or remains of seed shown ; root and shoot shown ;			
	Label	s ~	cotyledon / remains of seed ; shoot ; root ;			m
(ii)			awing measured correctly (+/- 2mm) with units neasurement line shown ;			
	"draw	ing ler	swer = 2 ticks = 2 marks ngth ÷ specimen length" ; agnification ;			
(b) (i)	paler	;	er stem ;			
(ii)	lack c light i	of,ligh nhibits uxins;	d to make chlorophyll ; t / chlorophyll ; growth ; ( <i>R</i> ) <i>'growing up towards the light'</i>			m
on rer klir cor on mc pra rep	nostat / ntrol ; e on its onitor cu actical d oeats ;	; e effec turning side b urvatur letail ;	ct of gravity ; g plant regularly and frequently ; out undisturbed ; re of root growth ;			
	e of diff ′P;	erent s	species ;			ma
					[To	tal ·

[Total : 19]