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## 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.

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Page 1	Mark Scheme	Syllabu
	IGCSE – May/June 2006	0637

(a) (i) use of ruled lines for columns and rows; table headings; units;

> (ii) initial temperature and final temperature recorded; rise in temperature recorded; mass of S1 and volume of water recorded;

(iii) rise in temperature substituted; other values substituted; correct value calculated;

(iv) 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) suggestion to direct heat; suggestion to insulate test tube; grind food; repeats and averages;

(c) (i) answer to (a)(iv) entered into table;

(ii) bar chart; axes labelled with units; data plotted accurately; ruler used and gaps between columns;

(iii) fat; linking **S1** value to the nearest food value; reason for value not being exact;

[Total : 21]

3

1

max 2

max 2

1

4

max 2

		Page 2			Mark Scheme	Syllabu
					IGCSE – May/June 2006	0637
2	(a)	(i)	Drawing ~		clear outline <b>S2</b> ; at least 10cm in one direction; cotyledon or remains of seed shown; root and shoot shown;	Syllabu Add Cannonidae
			Label	s ~	cotyledon / remains of seed; shoot; root;	max 6
		(ii)	_		awing measured correctly (+/- 2mm) with units easurement line shown;	
			"draw	ing ler	wer = 2 ticks = 2 marks gth ÷ specimen length"; agnification;	3
	(b)	(i)	S3 is paler taller	;	er stem ;	2
		(ii)	lack o	f,ligh hhibits uxins;	to make chlorophyll; t / chlorophyll; growth; (R) 'growing up towards the light'	max 2
	(c)	on in remarkling control	ostat / trol ; on its	; e effec turninç side b	plant;  ct of gravity; g plant regularly and frequently;  ut undisturbed;	

monitor curvature of root growth;

practical detail;

repeats; use of different species; AVP;

[Total : 19]

max 6