UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2006 question paper

0610 BIOLOGY

0610/06

Paper 6, maximum raw mark 40

MMM. igetans. 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.



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	Page 1		Mark Scheme			Syllabus	Paper	
				GCSE -	– May/June 2006	0610	06	
(a)) (i)	S larg P acc	ing of pod: jer size than Fig. urate proportion; ar outline;	1.2, ;				
		Label	: pod (fruit); nut (seed); stalk (flowering);			[max
	(ii)	and le	n of drawing ength of Fig.1.2 ification x		mm / cm mm / cm;			
(b)) (i)	rise ir	n temperature 50°	С				
	(ii)		20 x 4.2 / 0.5 x 10 8.4 kJ g ⁻¹ ;	000;				
	(iii)	A axe C colu	B bar chart; es labelled and un umns – ruled + ga t completely accu	aps bet	tween columns;			
	(vi)	fat;	ecf.					
(c)	ado hea	at;	dicts solution(s);					
	colo	our cha	ange;				-	ma
							[to	otal
(a)) (i)	leave stem	tip curved upwar s expanded; wider and longer; use of figures;		vards light;		[ma
	(ii)	side r roots	ending downward oots developing; longer and wider surface area wit	•				
			use of figures;	II SILLE	10013,		[ma
(b)	2 g 3 p	hototro eotropi ositive rowth;	-					
	5 m 6 le 7 d 8 p	hitosis; eaf / ce ifferent hotosy	ll enlargement; iation into xylem nthesis;	or phlo	pem;			
	10	espirati auxins						100 - 1
	11.	AVP;					-	max
							[to	otal

Page 2	Mark Scheme	Syllabus	Paper
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3 (a) (i)

	total	average
dark and dry	24	6
light and dry	4	1

2 totals and 2 averages correct;; [dark and moist total 204 – average 51 – already calculated]

 (ii) working and completion of pie chart 4 sections; proportions correct; labels/ key;

	average	sectors
dark and dry	6	2
dark and moist	51	17
light and dry	1	1/3 rd
light and moist	2	2/3 rd

[3] [1]

[2]

- (b) (i) largest number in dark and moist sector;
- (ii) largest number in damp conditions; to stop drying out and/or to be less conspicuous; hide under cover for survival; not exposed to sun and dry out; AVP;
 (c) fresh sample so first time / no previous experience/AW; different chambers – no scent; more woodlice; equilibrate apparatus between trials; monitor temperature / one named variable; level bench / turn or rotate chamber;

[total: 11]