MARK SCHEME for the October/November 2006 question paper

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0610 BIOLOGY

0610/05

Paper 5 (Practical Test), maximum raw mark 40

This mark scheme is published as an aid to teachers and students, 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.

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 grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

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

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UNIVERSITY of CAMBRIDGE International Examinations

Page 2	Mark Scheme				Syllabus	Paper	
	IGCSE - OCT/NOV 2006				0610	#5	
1 (a)	 (i) clear outline S1 ; circular ; at least 5cm across ; vascular bundles / areas of dye , shown in a ring ; dye labelled ; <i>(ignore dye that has spread out)</i> 					[5]	
	 (ii) length of drawing measured correctly (+/- 2mm) with units ; (his) drawing length ÷ (his) specimen length ; correct magnification ; (needs 'x' and correctly rounded to a max of 1 decimal place) Correct answer for his data with no answer = 2 ticks = 2 marks 						
(b)	in W2 there are more , vascular bundles / regions of dye ; in W2 scattered throughout the stem ; in W1 , circular pattern / around periphery ; [2 ma						
				ipriory,			
(c)	1 ι	use of potometer	use of dye	use of balance	;		
	2 r	no air bubbles		cover , soil / water , in pot	;		
	c r	rack movement of , bubble / neniscus / fluid , vith time	track movement of dye with time	track loss of , mass with tim	e ;		
	 4 plant with leaves attached ; 5 named factor ; 6 how the factor is varied ; 7 repeat(s) ; 						
		same , plant / spec	cies / size ;			[5 max]	
(d)	(i)	add Benedict's (heat / boil ;	(reagent) ;			[2]	
	 (ii) Any 2 valid safety precautions such as ~ wearing goggles ; heating tube indirectly / use water bath ; AVP ; 						
	 (iii) stays blue / no colour change ; reducing sugar , not present / absent ; 					[2]	
	 (iv) turns , orange / red ; reducing sugar (now) present / sucrose <u>was</u> present ; 					[2]	
	(v) sucrose / non-reducing sugar ; (A) disaccharide					[1]	
						[Total : 24]	

Page 3		Mark Scheme	Syllabus	Paper			
		IGCSE - OCT/NOV 2006	0610	#5			
2 (a)	(i) (ii)	arthropoda ; jointed legs / exoskeleton ;		[1] [1]			
(b)	(i)	insect ;		[1]			
(-)	(ii)	wings ; compound eyes ; three parts to the body / head + thorax + abdomen ; 3 pairs / 6 , legs ; one pair antennae ;					
		(A) jointed legs if not given in (a)(ii)		[3 max]			
(c)		 W5 Diptera ; W6 Decapoda ; W7 Araneae ; W8 Lithobiomorpha ; W9 Odonata ; 		[5]			
(d)	(i)	W5doesn't fizz / only fizzes a little / fizzes lessW10fizzes/ fizzes a lot/ fizzes model		[2]			
	(ii)	 W5 / fly, contains, no / little, (calcium) carb W10 / mollusc, contains (calcium) carbonate a lot of / more, (calcium) carbonate in mollus or other con 	э;	t;			
		4 ref. exoskeleton / shell ;		[3 max]			
				[Total : 16]			