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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the November 2005 question paper

0610 BIOLOGY

0610/05 Paper 5

Maximum 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 initially instructed to award marks. It does 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 November 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 1		Mark Schel		Syllabus	Paper			
			IGCSE – NOVEME	3ER 2005	0610	5			
1	(a) (i)	inc	increase in length;						
	(ii)	L	,						
			H after (table heading);U units (mm or cm) in heading;						
	(iii)	red	records for after soaking;						
	(iv)	me	mean calculated correctly;						
	(v)	appropriate ref. to sugar in cells; (water moves by) osmosis; direction; cells may already be turgid; insufficient time for change to occur;							
	(b) (i)	-							
	(5) (1)	potato chips soaked in distilled water							
	firm soft/bendy;								
	not slimy slimy;								
		granular smooth;							
		AVP AVP;							
	(ii)	(ii) (distilled) water has no sucrose/solution contains sucrose;							
		n inside cell;							
			[max 3]						
	(c) (i)		[2]						
	(ii)	 D data plotted; C points joined by, clear line/curve of best fit; (A) logical extrapolation (R) line to (0,0) or to left hand corner of graph 							
	(iii)	value where his line crosses x axis; (read off graph)							
	()	Table Title the mile discour axio, (road on graph)							

[TOTAL 18]

	•		IGCSE – NOVEMBER 2005	0610	5			
2	(a) (i)	Drawing -	clear outline S1; at least 5 cm in one direction; cotyledon and embryo shown; testa shown;					
		Labels -	cotyledon; plumule; radicle; testa;		[max 6]			
	(ii)	length of drawing measured correctly (+/- 2 mm) with units and clear measurement line shown;						
			ver = 2 ticks = 2 marks yth ÷ specimen length"; ynification;		[3]			
	(b) (i)	add iodine so	lution;					
		add Benedict heat/boil;	s reagent;					
		reference to a divide sample	appropriate volumes; e;		[max 4]			
	(ii)	turns blue/bla	ack;		[1]			
		turns, orange	/red;		[1]			
	(c)	starch;						
		starch and reducing sugar;						
		reducing suga	[3]					
	(e)	starch conver during germin sugar transport reference to e	orted to, shoots/roots; enzymes; before germination;		[max 4]			

Mark Scheme

Syllabus

Paper

[Total 22]

Page 2