

Man. Daba Cambridge.com 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.

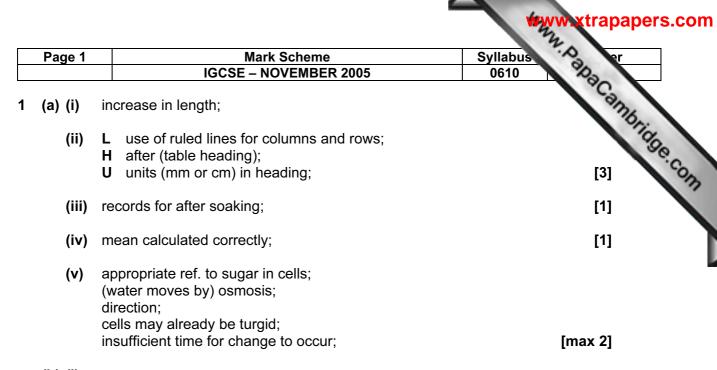
All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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.



(b) (i)

potato chips soaked in distilled water	P2
firm	soft/bendy;
not slimy	slimy;
granular	smooth;
AVP	AVP;

[max 2]

(ii) (distilled) water has no sucrose/solution contains sucrose;

	Allow answers for reverse argument if appropriate surrounding solution, weaker/higher water potential, than inside cell; water moves into cells; by osmosis; to equal concentrations/down water potential gradient; cells expand; [max 3]		
(c) (i)	+1 -2 -4 -5 -5 1 mark for correct numbers; 1 mark for correct +/-;	[2]	
(ii)	 D data plotted; C points joined by, clear line/curve of best fit; (A) logical extrapolation 		
	(<i>R</i>) line to (0,0) or to left hand corner of graph	[2]	
(iii)	i) value where his line crosses x axis; (read off graph)		
	Γ	TOTAL 18]	

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	Page 2		Mark Scheme IGCSE – NOVEMBER 2005	Syllabus er 0610
			IGCSE – NOVEMBER 2005	0010 230
2	(a) (i)	Drawing -	clear outline S1; at least 5 cm in one direction; cotyledon and embryo shown; testa shown;	Syllabus 0610 Bit Bit Bit Bit Bit Bit Bit Bit Bit Bit
		Labels -	cotyledon; plumule; radicle; testa;	[max 6]
	(ii)	length of dra line shown;	wing measured correctly (+/- 2 mm) wit l	h units and clear measurement
			wer = 2 ticks = 2 marks gth ÷ specimen length"; gnification;	[3]
	(b) (i)	add iodine so	olution;	
	add Benedicts reagent; heat/boil;			
		reference to divide sampl	appropriate volumes; e;	[max 4]
	(ii)	turns blue/black;		[1]
		turns, orange	e/red;	[1]
	(c)	starch;		
		starch <u>and</u> re	educing sugar;	
		reducing sug	ar;	[3]
	(e)	starch conve during germi sugar transp reference to lack of water starch insolu	orted to, shoots/roots; enzymes; before germination;	Imay 41
		AVP;;		[max 4]
				[Total 22]