CAMBRIDGE
INTERNATIONAL EXAMINATIONS

NOVEMBER 2002

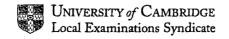
## **GCE Advanced Subsidiary Level**

## MARKSCHEME

MAXIMUM MARK: 25

SYLLABUS/COMPONENT:9700/3

BIOLOGY (PRACTICAL (AS))



Page 1	Mark Scheme	Syllab	.0	
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	Mark Scheme	- 0000	Syllab
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Qn	Expected Answers	Mark	Syllab 9700  Additional Guidance
			· · · · · · · · · · · · · · · · · · ·
a 10	10	1	
15		1	
20		1	
	*		
bi 0M > 5	50 mm	1	
	& 1M < 50 mm	1	
chang	e in length calculated correctly	1	
	calculated correctly	1	
+ and	- signs used correctly	1	- signs must be used
	orrectly orientated with units and scale correct	1	·
	s correct	1	
straigh	nt line of best fit correct	1	
	potential of distilled water > than cells	1	Accept hypo and
	ore water enters cells		hypertonic if correct but
	potential of 1M < cells	1	max 4 if no correct ref to
[	ore water leaves cells		water potential
сопес	t ref to water potential	Max 5	
b iv correc	t as read from graph with units mol dm <sup>-3</sup>	1	·
	n must indicate net movement / equilibrium	1	
		1	
i i	accurate	1	
	reason eg can measure to several decimal	1	
plac	ces / length may be cut at angle	1	Any good reason but rejection work out mass / vol of
			water
	n how epidermal strips obtained		
	rse in soln for > 15 mins		
	under microscope	.	
	nine percentage plasmolysis for each solution of the color of the colo		
Plot gr	<b>A</b> -		
	nine 50% plasmolysis		
	olysis explained / incipient plasmolysis	Max 5	
		25	
	4	25	