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CAMBRIDGE
INTERNATIONAL EXAMINATIONS

NOVEMBER 2002

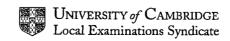
INTERNATIONAL GCSE

MARK SCHENE

MAXIMUM MARK: 30

SYLLABUS/COMPONENT: 0653/5

COMBINED SCIENCE (PRACTICAL TEST)



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1

			2	
Page	1	Mark Scheme	Syllad	1
		IGCSE Examinations – November 2002	0653	20.
Q1				apaca
(a)(i)		answers should be within 3mm of each other and less theore than 3mm on average different from SV		2
(ii)	correc	et calculation		1
(iii)	correc	tly calculated		1
(b)		answers should be within 3mm of each other and at leasone than 3mm on average different from SV		2
(c)		on A lower water potential than potato cells moves out of potato by osmosis		-
	solution cells;	on B higher water potential than potato cells/same water moves into potato by osmosis/no net movement	-	4
			total 10	
00				
Q2 (a)(i)		correct conversion to kg		1
(ii)	1. 4	correct value		1
(b)		mass between limits		
		weighed to nearest 0.1g		2
(ii)	•	both temperatures to nearest 0.5 C		
		any drop in temperature	,	2
		temperature change correct 2.5g gives 6.0°C fa 3.0g gives 7.0°C fa		
		two marks if within 1°C allow one if within 2°C		2

correctly calculated

endothermic because temperature falls

(iii)

(c)

Page 2	Mark Scheme	
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Q3.

(b) Has five results

Good spread of temperatures

Within 10secs of SV for 35°C

Within 2 secs of SV at 65°C

All points for curve within 2 secs of curve

5

(d) Graph

Scale is sensible

Plotting correct

Acceptable curve

3

surround reagents in ice (e)

repeat experiment as above

2

total 10