

NOVEMBER 2002

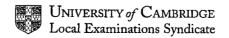
INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 30

SYLLABUS/COMPONENT: 0653/5

COMBINED SCIENCE (PRACTICAL TEST)



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Q1 (a)(i)	Both answers should be within 3mm of each other and less than 8cm. Not more than 3mm on average different from SV	2
(ii)	correct calculation	1
(iii)	correctly calculated	1
(b)	Both answers should be within 3mm of each other and at least 8cm. Not more than 3mm on average different from SV	2
(c)	solution A lower water potential than potato cells water moves out of potato by osmosis	
	solution B higher water potential than potato cells/same water potential as cells; water moves into potato by osmosis/no net movement	4
	total 10	
Q2 (a)(i)	correct conversion to kg	1
(ii)	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 fall 3.0g gives 7.0°C fall	
	two marks if within 1°C allow one if within 2°C	2
(iii)	correctly calculated	1
(c)	endothermic because temperature falls	1

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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

(e) surround reagents in ice

repeat experiment as above

2

total 10