

JUNE 2002

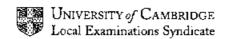
INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 0625/5

PHYSICS (PRACTICAL)



Page 1	Mark Scheme	Syllabus	Paper
	IGCSE Examinations – June 2002	0625	5

1.	a and b both < 40 cm either to nrst mm (a + b) 39 - 41 cm correct unit at either/both M correct Unit Diagram, good & neat/clear description a and b both sensible (< 30 cm) (a + b) 29 - 31 cm M correct Average M Method Unit 2/3 sf values within 5 g of each other	(OR adequate	1 1 1 1 1 1 1 1 1 1 1 1 1 1 TOTAL 15
2.	all correct volumes 6 temps decreasing evidence of better than 1°C all better than 1°C hot water temp sensible temp of mixture sensible unit at least once box ticked corresponding to results justified; method 1 drop given method 2 drop given bottom of meniscus shown eye line horizontal shown Any two sensible modifications (insulation, repeats, digital thermometer, a	at same time, same starting temp)	1 1 1 1 1 1 1 1

Page 2	Mark Scheme	Syllabus	Paper
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3.	5 sets of v correct u values evidence of better than 0.5 cm all given to arst mm (not all .0 or .5) v values decrease, as u increase	1 1 1 1
	Graph: v axis labelled (v/cm) Scale Plots (check pt most off line to ½ sq) Line judgement: shape thickness v = u line correctly drawn u value correct to ½ sq clearly shown method	1 1 1 1 1
	f value correct arith, $2/3$ sf, unit f value $15 \text{ cm} \pm 2 \text{ cm}$	1
		TOTAL 15
4.	I in amp V ₁ , V ₂ both sensible At least 1 dp for both Correct unit] [] 1
	V ₁ /V ₂ present No unit 2/3 sf	1 1 1
	R_1 , R_2 both correct arith Ω shown	1
	R_1/R_2 present Same as V_1/V_2	1 1
	Same/equal (ecf) Diagram symbols cell & voltmeter Resistor, variable Resistor, fixed (-1 any error)	1
	Resistors in parallel with each other Variable resistor & voltmeter correct positions	1 1

TOTAL 15