A. A. Tremepapers

CAMBRIDGE INTERNATIONAL EXAMINATIONS

NOVEMBER 2002

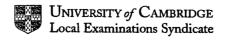
INTERNATIONAL GCSE

MARKSCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 0625/5

PHYSICS (PRACTICAL)



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

1.	x and y both < 40 cm	1
	either to nrst mm	1
	(x + y) 39 - 41 cm	l
	correct unit, either/both	1
	m correct	1
	unit	1
	Diagram good, neat/clear description	2
	(OR adequate	1)
	x and y both sensible (< 40 cm)	1
	(x + y) 39 - 41 cm	1
	m correct	1
-	Average m method	··· 1
	unit	. 1
	2/3 sf	1
	within 5 g of each other	1
		TOTAL 15
		TOTALIS
2.	0-300 s temps present and decreasing	1
	330 - 450 temps present and higher than $t = 300$ s	1
	evidence of better than 1°C	1
	all to better than 1°C	. 1
	heats up faster than cools	. 1
	example drop given with time	1
,	example rise given with time	1
	Graph	1
	Temp scale at least ½	1
	Labelled	1
	Plot at t = 0 s present	1
	10 more plots	1
	plots – check 2 most off line (-1 each error) (do not award if < 6 plots)	2
	line: shape	. 1
	thickness	1
		70741 17
		TOTAL 15

3.	V, I ₁ and I ₂ sensible unit for V and I (at least once) at leasts1 or 2 dp (both)	1 1 1 1	
	ratio correct 2/3 sf no unit	1 1 1	
	R ₁ and R ₂ correct Unit either/both	1 1	
	Ratio correct 2/3 sf and no unit	1 1	
	the same corresponds with results	1 1	
	Circuit Symbols cell & resistor Resistor, variable, voltmeter Resistor fixed (-1 each error) Voltmeter and variable resistor in correct position	2 ns in correct circuit	1

Mark Scheme

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TOTAL 15

Syllabus 0625

4	u and v present	
••	unit for either/both	. 1
	u + v = 79 - 81 cm	1
	Evidence of better than 0.5 cm (in u,v,x or y)	1
	H value	1
	x and y present	1
	unit for either/both (same as u and v)	1
	h value	1
2* 1	correct arith for ratios u/v and y/x	1
	both to 2/3 sf	1
	no units	1
	== -	1
	u/v = y/x within 10%	1
	correct H/h, 2/3 sf, no unit	1
	precaution stated	1
	explained	1

TOTAL 15