

NOVEMBER 2001

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK : 60

SYLLABUS/COMPONENT : 0625/05

**PHYSICS
(PRACTICAL)**

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- 1 Method 1
- Records of I [1]
 I_0 (9.3 - 9.7 cm) [1]
both same unit and given at least once [1]
 S 45 - 47 cm³ [1]
unit [1]
 T [1]
- Calculation of V_0 , correct arith [1]
Calculation of V , correct method [1]
- Method 2
- At least 5c length of string used [2]
(or 2 - 4 lengths or averages [1])
- Correct method of c (or single value) [1]
unit [1]
- V calc correct [1]
both V to 2/3 sf [1]
 V unit at least once [1]

[Total 15]

- 2 Table:
- I in A [1]
 V in V [1]
 R in W [1]
- evidence of I to better than 0.1 A [1]
evidence of V to better than 0.5 V [1]
 I and V consistently 2/3 sf [1]
- 4 R values [1]
 R correct [1]
2/3 sf [1]
- L , M and N resistances similar [1]
 $R = 2 \times$ individual [2]
(or all $>$ individual = 1 mark)
- Circuit diagram:
- lamps in parallel [1]
voltmeter correct [1]
ammeter correct [1]

[Total 15]

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3	AB correct	[1]
	trace complete	[1]
	neat	[1]
	P ₃ P ₄ distance > 5 cm	[1]
	pin positions marked	[1]
	normal at 90° and 40 mm from E (by eye)	[1]
	VE = 20 mm (by eye)	[1]
	records of a, b, c and d	[1]
	all same unit	[1]
	unit at least once	[1]
	evidence of distance to better than 0.5 cm	[1]
	n 1.3 - 1.6	[1]
	2/3 sf and no unit (award if n correct value)	[1]
	precaution stated	[1]
	explained	[1]

[Total 15]

4	<u>Thermometer A</u>	
	6 temps, decreasing	[1]
	<u>Thermometer B</u>	
	6 temps decreasing	[1]
	unit temp	[1]
	time	[1]
	evidence of temp to better than 0.5° C	[1]
	consistently better than 0.5° C	[1]
	<u>Graph:</u>	
	temp axis suitable	[1]
	labelled	[1]
	plot most of line is correctly plotted	[1]
	line judgement (thickness)	[1]
	line judgement (shape)	[1]
	A gradient steeper	[1]
<u>Conclusion:</u>		
statement re cooling	[1]	
explained by ref to gradient	[2]	

(or numbers taken from graph = 1)

[Total 15]