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### UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

# MARK SCHEME for the May/June 2008 question paper

# 0625 PHYSICS

0625/05

Paper 5 (Practical), maximum raw mark 40

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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## (b) clear explanation/diagram

(d)	a + b = 38 - 42 cm
	b > a
	both in m, cm or mm, with unit

(0)	Macrost solution (sof)	
(e)	W correct calculation (ecf)	

(f)	new a and b values, both less than 50 cm
	a + b = 28 - 32 (cm)
	two W values same to within 10%

#### 2 Table:

1 45.51
Units V, A, Ω (symbol/word)
All V to at least 1 dp, less than 3 V
All I to at least 2 dp, less than 1 A
R values correct (ecf)
Consistent 2 or consistent 3 sig fig for R
Circuit 1 <i>I</i> value greatest
Circuit 3 I value < circuit 2 I value

(b) (i)	Yes (if within 10%) No (if not)
	One ninth value calculated and compared

(ii)	temperature change/zero error in meter/
	Lamps unlikely to have same resistance

#### (a) Table: 3

container A complete temp records descending
container B complete temp records descending
temps to nearest 1 °C or better

## (b) Graph:

Temperature axis labelled θ/°C	
Suitable scale (plots occupy at least ½ grid)	
Plots correct to nearest ½ square	
Lines well judged curves	
Lines thin	

[1]

[1] [1] [1]

[1] [1]

[Total: 10]

[1] [1] [1]

[1]

[M1] [A1]

[1]

[Total: 10]

1 1 1

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## (c) Statement:

larger surface area increases rate of cooling/ no significant effect (depending on readings) Justification:

Correct reference to gradients of lines

[Total: 10]

### 4 Trace:

all lines present, thin, neat and in correct areas normal drawn EF at 30° to normal (by eye) P <sub>3</sub> P <sub>4</sub> distances at least 5 cm KJ at least 5 cm	[1] [1] [1] [1]
(h) a correct to 2mm	[1]
(j) b correct to 2mm	[1]
(I) c and d recorded, a and b both in mm, cm or m with unit	[1]
(m) correct calculation of <i>n</i> , value 1.3–1.7 2/3 significant figures with no unit	[1] [1]

[Total: 10]