International General Certificate of Secondary Education

UNIVERSITY OF CAMBRIDGE LOCAL EXAMINATIONS SYNDICATE

PHYSICS **0625/5**

PAPER 5 Practical Test

ANSWER BOOKLET

OCTOBER/NOVEMBER SESSION 2001 1 hour 15 minutes

TIME 1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in the answer booklet.

FOR EXAMINER'S USE	
1	
2	
3	
4	
TOTAL	

This answer booklet consists of 7 printed pages and 1 blank page.

[Turn over

1   **METHOD 1**

   (a) Record of l ....

   (b) Record of l_0 ....

   (c) Record of S ....

   (e) Record of T ....

   (f) Calculation of V_0 ....

   (g) Calculation of V, the volume of the rod, using the equation:

$$V = V_0 \times \frac{l}{l_0}$$

   $V =$ ....

                                                                                              [8]

METHOD 2

   (a) Record of reading(s) taken and calculation(s) to determine c, the circumference of the rod.

   $c =$ ....   [4]

   (b) Record of l ....

   (c) Calculation of V, the volume of the rod, using the equation:

$$V = 0.08 \times l \times c^2$$

   $V =$ ....   [3]

                                                                                  [Total : 15]

2 **(a)–(g)**

lamp	*I*/	*V*/	*R*/
L			
M			
N			
L, **M** and **N**			

[12]

(h) Circuit diagram

[3]

[Total : 15]

[Turn over

3

(j) *a* = ...

     b = ...

     c = ...

     d = ...   [4]

(k) Calculation of *n* using the equation $n = \dfrac{a \times d}{b \times c}$

     n = ...   [2]

(l) Statement of **one** precaution that you took

     ....

     Explanation of the precaution

     ....

     ....

     ....   [2]

Tie your ray trace sheet into this Answer Booklet opposite this page.   [7]

[Total : 15]

Tie your ray trace sheet in here.

[Turn over

4 **(a), (b)**

Thermometer **A**

t/	θ/
0	
30	
60	
90	
120	
150	

(c)

Thermometer **B**

t/	θ/
0	
30	
60	
90	
120	
150	

[5]

(f) Which thermometer cooled more quickly?

.... [1]

Justification of your answer

....

....[2]
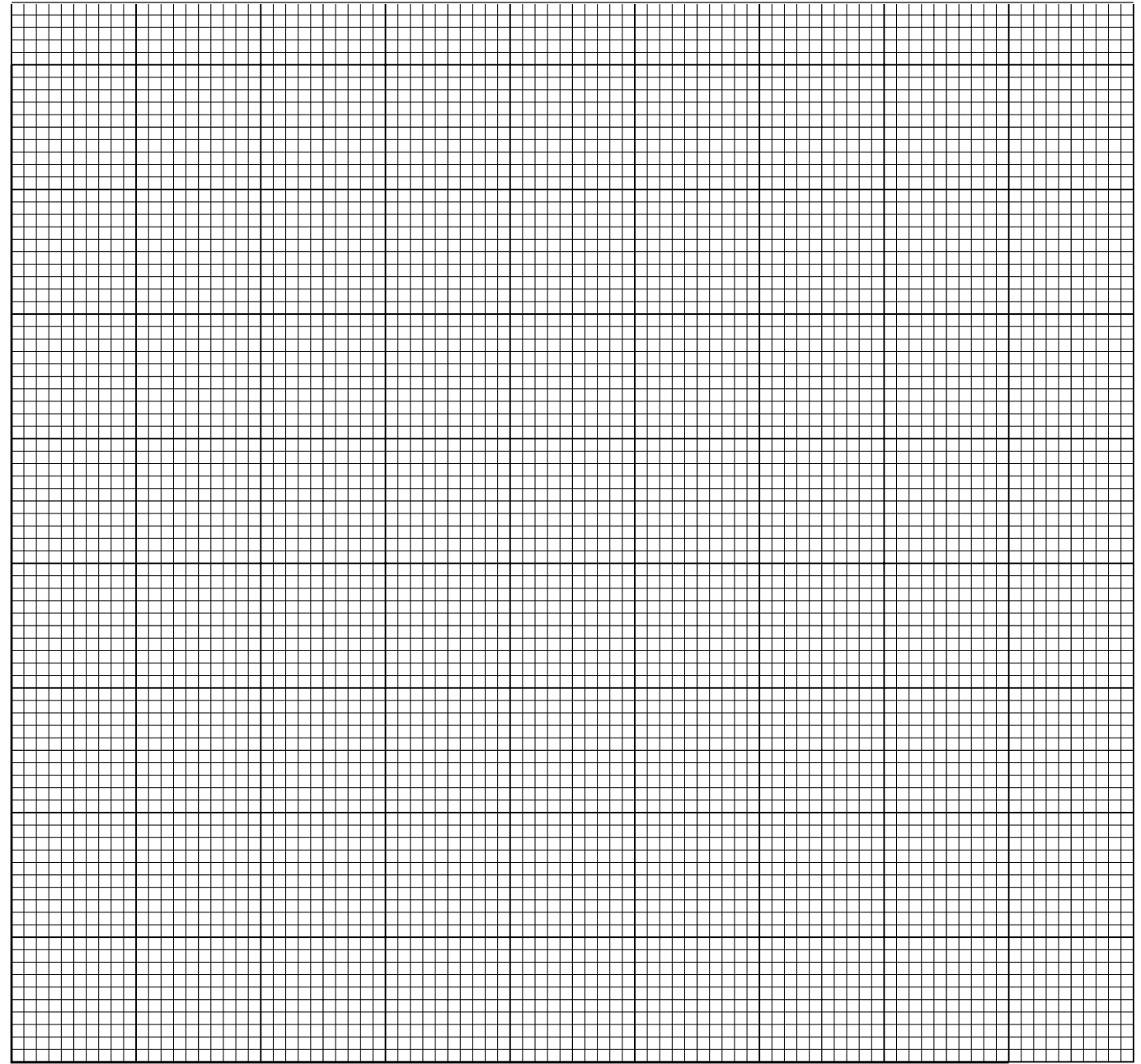
0   20   40   60   80   100   120   140   160   *t*/s

[7]

[Total : 15]

8

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