

Centre Number	Candidate Number	Name
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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

**PHYSICS**

**0625/05**

Paper 5 Practical Test  
ANSWER BOOKLET

October/November 2006

**1 hour 15 minutes**

**READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

All of your answers should be written in this Answer Booklet: scrap paper must **not** be used.

Answer **all** questions.

Graph paper is provided in this Answer Booklet. Additional sheets of graph paper should be used only if it is necessary to do so.

At the end of the examination, fasten any additional answer paper used securely to this Answer Booklet. The number of marks is given in brackets [ ] at the end of each question or part question.

For Examiner's Use	
1	
2	
3	
4	
<b>Total</b>	

2

1 (a)  $m =$  .....

(b) Record of the lengths of a number of rods

[2]

(c) Calculation of the average length  $l$

$l =$  .....

[1]

(d) Record of measurement and calculation to determine the circumference  $c$

$c =$  .....

[2]

(e) Calculation of  $V$  using the equation  $V = \frac{c^2 l}{4\pi}$

$V =$  .....

[1]

3

(f) Estimate of the total volume  $V_r$  of the rods

$V_r = \dots\dots\dots$  [1]

(g) Calculation of  $d$  using the equation  $d = \frac{m}{V_r}$

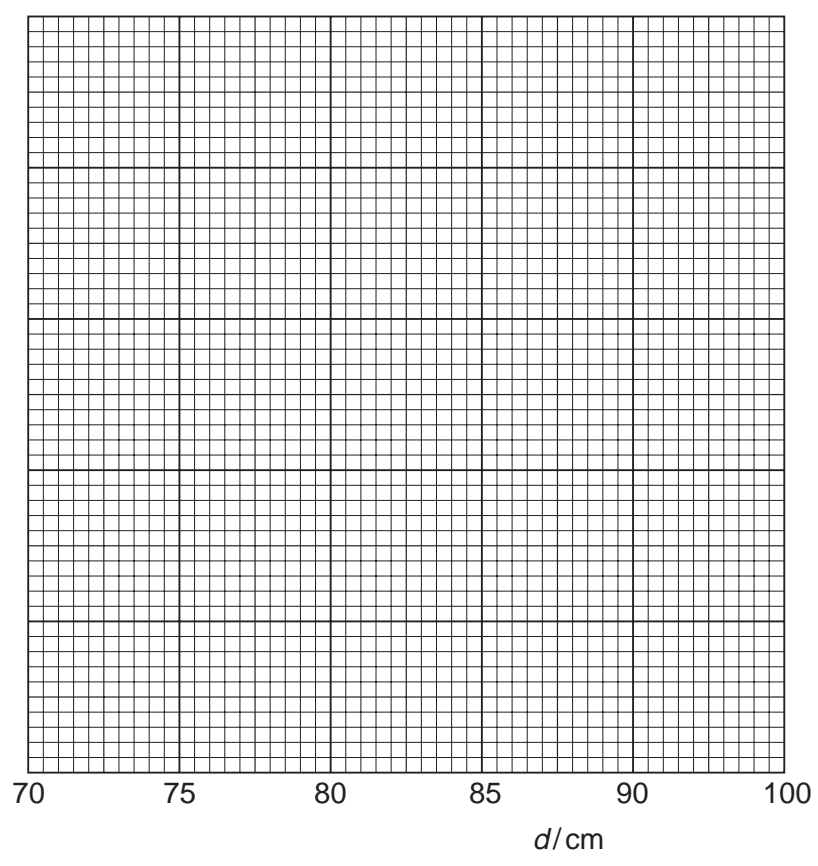
$d = \dots\dots\dots$  [2]

2 (a) – (d)

$d/cm$	$t/s$	$T/s$
90.0		
85.0		
80.0		
75.0		
70.0		

[3]

(e)



[5]

(f) Statement .....

Reason .....

.....

..... [1]

(g) One suggestion for improved accuracy .....

.....

5

3 (j)  $r_1 =$  .....

(q)  $r_2 =$  .....

(r) It is best to view .....

Reason .....

..... [2]

Tie your ray trace sheet in here.

[5]

4 (b) and (c)

beaker A

$t/s$	$\theta/^\circ\text{C}$
0	
30	
60	
90	
120	
150	
180	
210	
240	
270	
300	

(d)  $V = \dots\dots\dots$

[2]

[1]

7

(e)

beaker B

$t/s$	$\theta/^\circ\text{C}$
0	
30	
60	
90	
120	
150	
180	
210	
240	
270	
300	

[1]

(f) Statement .....

.....

Justification .....

.....

..... [3]

(g) Variable 1 .....

.....

Variable 2 .....

.....

Variable 3 .....

..... [3]

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