

Candidate Name _____

Centre Number

Candidate
Number

| | |
|--|--|
| | |
|--|--|

**International General Certificate of Secondary Education
CAMBRIDGE INTERNATIONAL EXAMINATIONS**

PHYSICS

PAPER 5 Practical Test
ANSWER BOOKLET

0625/5

OCTOBER/NOVEMBER SESSION 2002

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 this answer booklet.

FOR EXAMINER'S USE

| | |
|--------------|--|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| TOTAL | |

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



1

(c) $x = \dots\dots\dots$

$y = \dots\dots\dots$

[4]

(d) Calculation of m

$m = \dots\dots\dots$

[2]

(e) How you judged that the centre of the 50 g mass was directly above the 10.0 cm mark.

.....
.....
.....[2]

(f) $x = \dots\dots\dots$

$y = \dots\dots\dots$

(g) Calculation of m

$m = \dots\dots\dots$

[3]

(h) Calculation of the average of the two values of m

average m value =

[4]

2 (a)–(e)

| time t/s | temperature $\theta/^\circ\text{C}$ |
|------------|-------------------------------------|
| 0 | |
| 30 | |
| 60 | |
| 90 | |
| 120 | |
| 150 | |
| 180 | |
| 210 | |
| 240 | |
| 270 | |
| 300 | |
| | |
| 330 | |
| 360 | |
| 390 | |
| 420 | |
| 450 | |

[4]

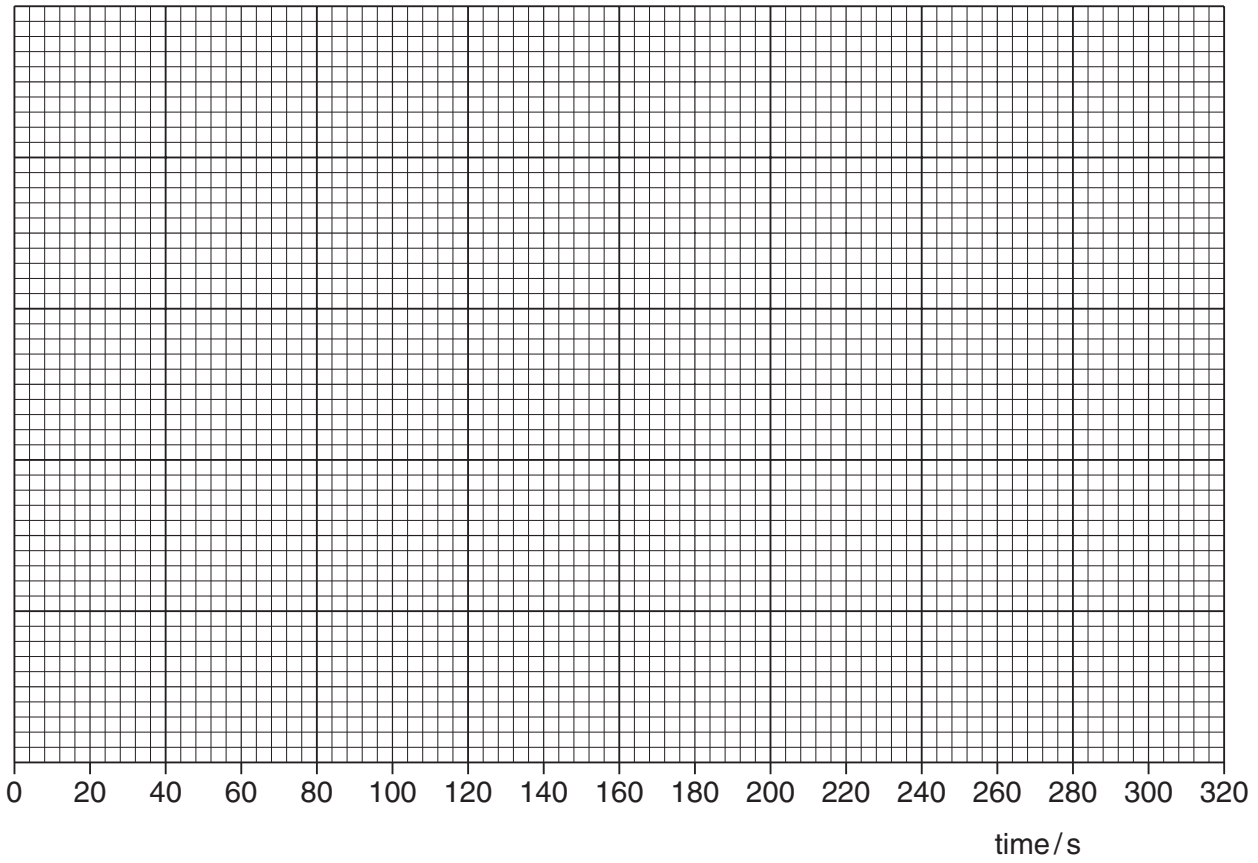
(g) Conclusion

.....
.....[1]

Justification

.....
.....
.....
.....[2]

(f)



[8]

3 (a) $V = \dots\dots\dots$

$I_1 = \dots\dots\dots$

(b) $I_2 = \dots\dots\dots$

[3]

(c) Calculation of I_1/I_2

$I_1/I_2 = \dots\dots\dots$

[3]

(d) Calculation of R_1

$R_1 = \dots\dots\dots$

Calculation of R_2

$R_2 = \dots\dots\dots$

[2]

(e) Calculation of R_2/R_1

$R_2/R_1 = \dots\dots\dots$

[2]

(f) Within the limits of experimental error, the values of I_1/I_2 and R_2/R_1 are

$\dots\dots\dots$ [2]

(g) Circuit diagram

[3]

4

(d) Record of u

(e) Record of v

(f) Record of H

[5]

(h) Record of x

(i) Record of y

(j) Record of h

[3]

(k) Calculation of u/v

$u/v =$

Calculation of y/x

$y/x =$

Calculation of H/h

$H/h =$

[5]

(l) Precaution

.....

.....

.....[2]