

232/3

PHYSICS

PAPER 3

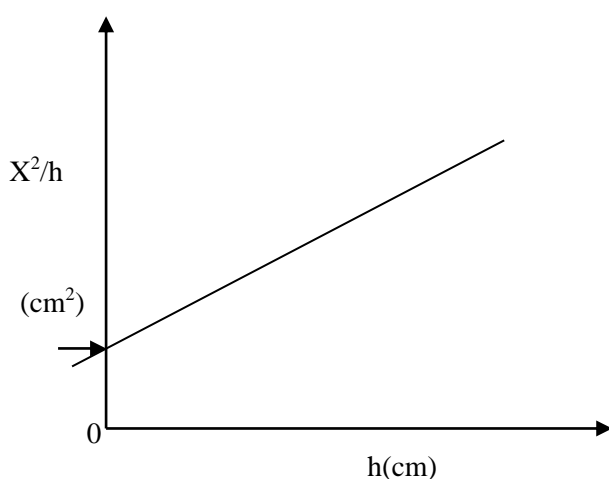
MARKING SCHEMEQ1. $h = 5.0\text{cm} \pm 1.0$

Xcm	Hcm	X ² cm(cm ²)	X ² /h(cm)
20.0	5.0	400	400
25.0	7.0	625	89.29
30.0	10.0	900	90.00
35.0	13.0	1225	94.23
40.0	18.0	1600	88.89
45.0	24.0	2025	84.38

 ± 1.0

Use students own values.

Vi)



Axes-label/units -1

Scale -1

Plotting -2

Best line -1

5

Vii) Shown on graph -by student graph.

Xi) 28sec for 20 oscillations (student value within ± 1 seconds).

$$X) \quad T = \frac{28}{20} = 1.4\text{secs.}$$

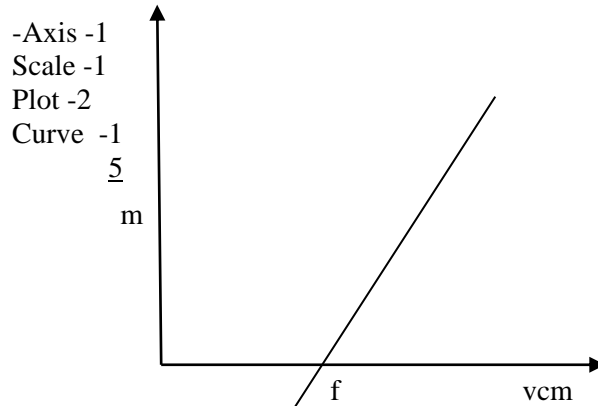
Xi) Making P subject and correct substitution best value of student.

Q2. $F = 20 \pm 0.1$.

e)

U	30	35	40	45	50	55
V	58	47.0	42.0	46	34.5	32.5
$M = v/u$	1.93	1.34	1.05	1.02	0.69	0.59

F) Plot.



g) Slope = $\frac{1}{f}$

h) Use the x intercept
When $M=0$, $v = f$.

Or reciprocal of slope = f .

