

NOVEMBER 2001

INTERNATIONAL GCSE

MARK SCHEME

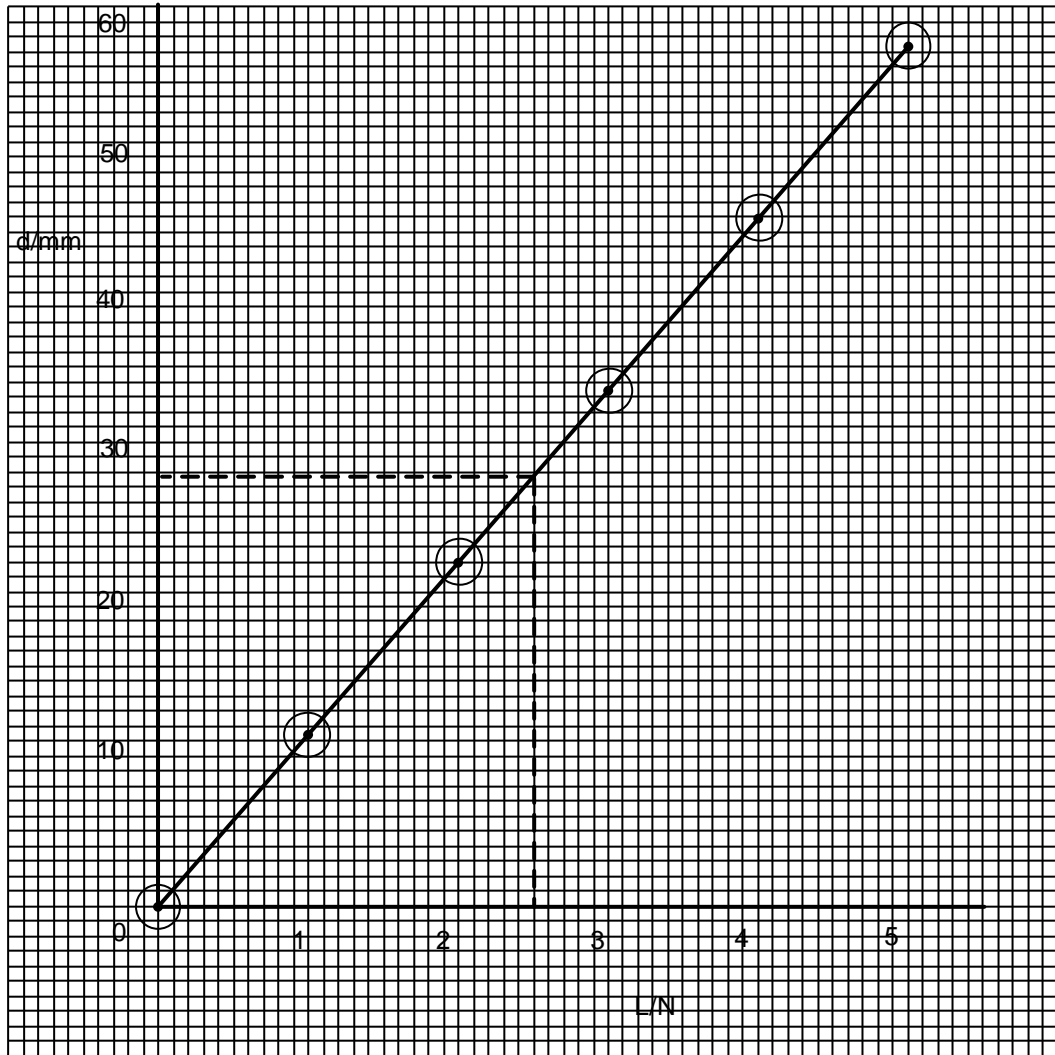
MAXIMUM MARK : 40

SYLLABUS/COMPONENT : 0625/06

PHYSICS

(ALTERNATIVE TO PRACTICAL)

1 (a) (i)



Graph:

axes, labelled, d/mm against L/N

[1]

scales suitable

[1]

plots 6 correct

[3]

(or 5 correct = 2, or 4 correct = 1)

line judgement

[1]

(ii) reading to 1/2 sq

[1]

clearly shown

[1]

(b) horizontal rule at top (1)

vertical rule in centre (1)

or clamped rule in centre (2)

or rule in centre resting on floor (2)

[Max 2]

[Total 10]

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- 2 (a) (i)** 0.22
0.23
0.17(5) all correct (or 2 correct = 1) [2]
- (ii)** all correct [M1]
all to 2/3 sf [A1]
unit (at least once) [1]
- (b)** circuit:
lamps in parallel [1]
voltmeter correct (penalize more than one) [1]
ammeter correct (for any one lamp) [1]
- [Total 8]**
- 3 (a) (i)** h = 18(mm) [1]
- (ii)** t = 1.2mm (unit required) [1]
- (iii)** correct arith [M1]
unit [A1]
- (iv)** d correct arith [1]
2/3 sf [1]
- (b)** mass on correct side [1]
approx twice as far from pivot (by eye) [1]
(between 35 and 40)
- [Total 8]**
- 4 (a) (i)** 35
23
32 all correct [1]
- (ii)** same initial temp
same size cans
same distance from heater
same time
same room temp
ANY two from above (1) + (1) [2]
- (b) (i)** R [1]
- (ii)** 18 - 19°C [1]
clear how obtained [1]
- [Total 6]**

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- 5 (a) (i)** lines correct, thin and neat [1]
- (ii)** $30^\circ \pm 1^\circ$ [1]
- (b)** view base of pins / ensure vertical pins as far apart as poss (or > 5cm)
use a third pin
ANY two from above (1) + (1) [2]
- (c) (i)** $y = 2.4 \pm 0.1$ cm [1]
- (ii)** $x = 6.8 \pm 0.1$ cm [1]
- (iii)** $n = 1.3 - 1.5$ (from correct arith) [M1]
no unit and 2/3 sf [A1]

[Total 8]