



232/3 – PHYSICS PAPER 3 - MARKING SCHEME

1. (b) $E = 2.9V$ ✓ (1mk)

(c)

Length $L(m)$	0.2	0.3	0.4	0.5	0.6	0.7
Current $I(A)$	0.6	0.52	0.44	0.4	0.35	0.29
$\frac{1}{I} (A^{-1})$	1.67	1.92	2.27	2.5	2.85	3.4

Correct values each ½mk max 3mks

Correct values $\frac{1}{I}$ ½mk max 3mks

(f) Graph

- Axes well labeled with unit. (1mk)
- Scale simple uniform and easy to plot (1mk)
- Plotting 6 points (2mks)
- 5 points (1mk)
- Less than 4 no mark

(g) Gradient = $\frac{\Delta \frac{1}{I} (A^{-1})}{\Delta L(m)}$ (1mk) $= \frac{2.5 - 1.67}{0.5 - 0.2}$ (1mk)

$= \frac{0.83}{0.3}$ $= 2.767 A^{-1} m^{-1}$ (1mk)

(h) (i) $d_{ave} = 0.38mm$ (1mk)

(ii) χ - section Area $A = \frac{22}{7} \times (19 \times 10^{-4})^2 = 1.13 \times 10^{-7} m^2$ (1mk)

(i) From the equation

$$\frac{1}{I} = \frac{K}{AE}(L) + \frac{Q}{E}$$

Gradient = $\frac{K}{AE}$ (1mk)

But $E = 2.9V$, $A = 1.134 \times 10^{-7} m^2$

$K = 2.767 \times 1.134 \times 10^{-7} \times 2.9$
 $= 9.10 \times 10^{-7} \Omega m$ (1mk)

$\frac{Q}{E} = \text{Intercept} = 1.08 A^{-1}$

$Q = 1.08 A^{-1} \times 2.9$
 $= 3.132 \Omega$ (1mk)

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