**PHYSICS PP3 MARKING SCHEME**

(b)



(c) Area



(e)



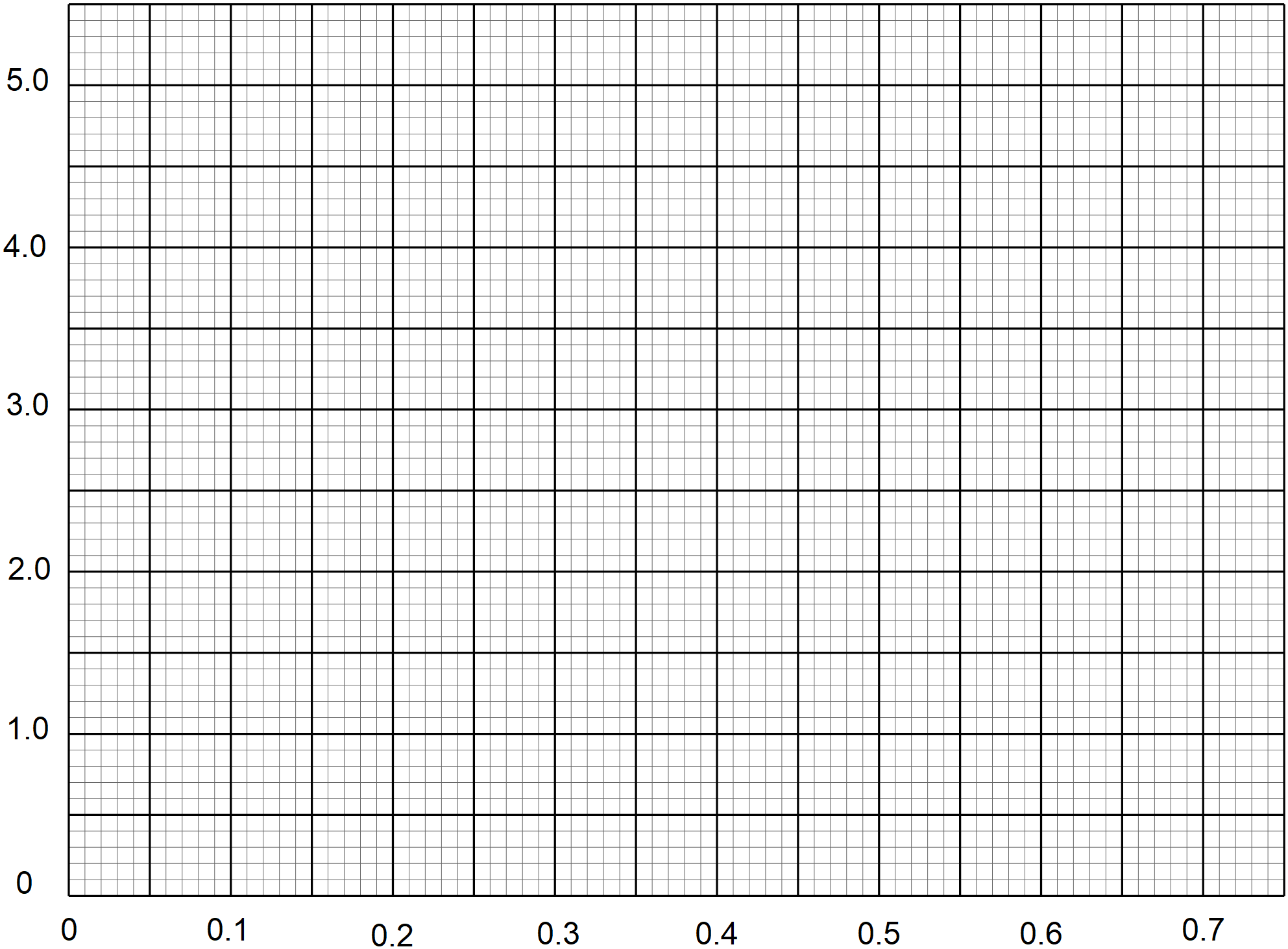
(f)



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Length, (m)** | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 |
| **Current, I (A)** | 0.50 | 0.42 | 0.34 | 0.29 | 0.26 | 0.22 |
|  | 2.000 | 2.381 | 2.9412 | 3.448 | 3.846 | 4.545 |

(h)







Length (m)



*A1 -award for correctly labelled axis and unit of the quantity given*



*S1- award if the scale is uniform, simple and accommodative*



*P2- Award 2 marks if all the points in the table are correctly plotted. Denie one mark for between 3 and 5 points plotted correctly. Otherwise give a give zero.*



*L1- Award one mark for line of best fit. (MUST pass through at least three points)*

(j



**(**k)



**QUESTION 2**

**PART A**

(a)



(d)



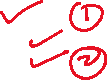
(e)



(g) 14.2cm



(h)(i)



(ii)



(iii) RD of L=

PART B

(h)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Angle of incidence | 30° | 50° | 70° |  |
| Angle of deviation | 45o | 40o | 46o | *, denie if no units.* |

*Each value within the range a mark*



(g) (i) (1 mark)

(1 mark)



*marks students’ value*

(ii)



= (1 mark)

=



=



= 1.509 (1 mark)

*marks students’ value*