



**Fig. 1.1**

- (i) State the feature of the graph that indicates the presence of systematic error in the experiment.

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

(ii) Calculate the value of  $C$ , in SI units, from Fig. 1.1.

value of  $C$  = ..... SI base units [3]

(iii) With reference to Fig. 1.1 and **(b)(i)**, state and explain whether the accuracy of  $C$  is affected by the presence of systematic error in the experiment.

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