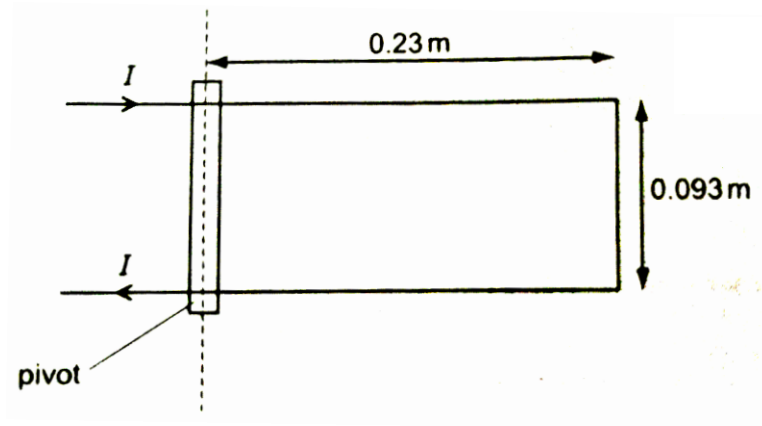


- 25** In order to determine the value of a current I , it is passed into a current balance. This consists of a U-shaped wire placed in a constant magnetic field of flux density $3.6 \times 10^{-2} \text{ T}$.

The U-shaped wire has length 0.23 m and the arms are 0.093 m apart, as shown in the diagram.



The U-shaped wire experiences a turning moment about the pivot of value $7.4 \times 10^{-3} \text{ N m}$.

What is the value of I ?

- A** 0.044 A **B** 1.6 A **C** 2.8 A **D** 9.6 A

