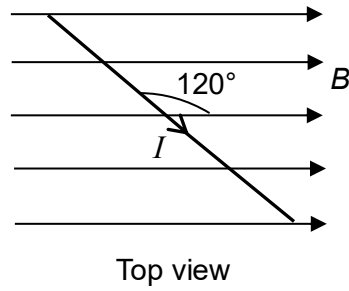


- 22 A 5.0 g copper wire of length 40.0 cm is placed on a horizontal surface at an angle of  $120^\circ$  to a uniform magnetic field of flux density 0.050 T as shown below.

When a current  $I$  passes through the wire, the wire lifts vertically up with an acceleration of  $0.010 \text{ m s}^{-2}$ .



What is the current in the wire?

- A 0.00289 A      B 2.46 A      C 2.83 A      D 5.66 A