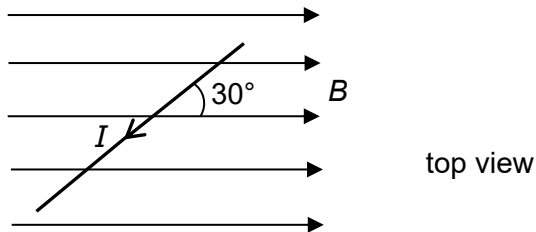


- 22** A wire 30 cm long with a mass of 4.0 g, is placed on a horizontal platform in a magnetic field of flux density 0.040 T. The diagram shows the top view of the set-up.

The current I in the wire is slowly increased until the wire starts to lift off from the platform when $I = I_o$.



What is value of I_o ?

- A** 3.3 A **B** 6.5 A **C** 33 A **D** 65 A
- 23** A conducting rod of length l is released from rest at the top of a smooth sloping surface