## Magnetic Materials Previous Year JEE Problems

2 Q. The coercivity of a small magnet where the ferromagnet gets demagnetized is  $3 \times 10^3 Am^{-1}$ . The current required to be passed in a solenoid of length 10 cm and number of turns 100, so that the magnet gets demagnetized when inside the

solenoid, is: (1) 3A

(2) 6 A

(3) 30 mA

(4) 60 mA

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Sol. Coercivity = B /  $\mu_0$  = 3 x 10<sup>3</sup> = n x I 3 x 10<sup>3</sup> = 1000 x I

 $I = 3 \times A$