23 A square loop of copper wire is initially placed perpendicular to the lines of a constant uniform magnetic field of flux density 5.0×10^{-3} T. The area enclosed by the loop is 0.20 m^2. The loop is then turned through an angle of 60^o. The turn takes 0.10 s. The average e.m.f. induced in the loop during the turn is

A 1.3 mV **B** 5.0 mV **C** 8.7 mV **D** 10 mV