

05. State that, a current carrying coil in a magnetic field will experience a torque.

Ans: **Turning Effect on a Current-carrying Coil in a Magnetic Field:**

When a current passes through the coil, equal and opposite parallel forces act respectively on the sides of the coil beside the poles of the permanent magnet. This pair of forces produces a turning effect to rotate the coil until it is stopped by the control springs.

A current-carrying coil kept in a magnetic field experiences a torque, which is the cross-product of the magnetic moment and the field vector.

Hence, the torque is maximum when the dipole moment is perpendicular to the field, and zero when it's parallel or antiparallel to the field.

When an electric current is passed through a coil, placed in magnetic field with its plane parallel to the field, it experiences a torque. Thus, this rectangular coil tends to rotate in the magnetic field and it suffers torque.

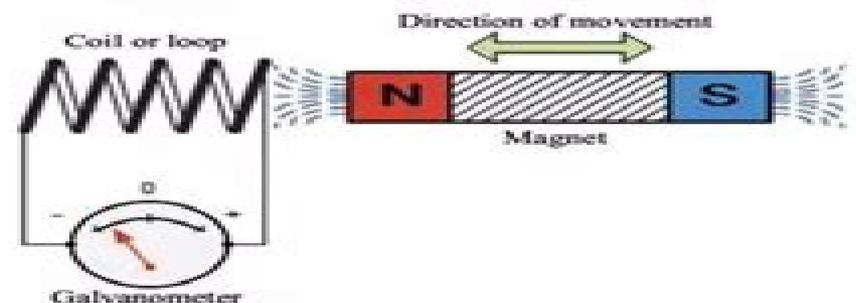
06. Describe an experiment that demonstrates the induction of e.m.f. in a circuit by a varying magnetic field.

Ans: **Changing Magnetic Field can Induce e.m.f in a Circuit:**

Faraday demonstrates that magnetic fields can create currents. When the magnet is moved "towards" the coil, the galvanometer's pointer or needle will deflect away from its central position in one direction only.

When the magnet stops moving and is held stationary with respect to the coil, the needle of the galvanometer returns to zero as there is no physical movement of the magnetic field.

Similarly, when the magnet is moved "away" from the coil, the galvanometer needle deflects in the opposite direction, indicating a change in polarity. By moving the magnet back and, forth towards the coil, the needle of the galvanometer will deflect left or right, positive or negative, relative to the magnet's motion.



If you keep the magnet stationary and move only the coil toward or away from the magnet, the needle on the galvanometer will also move in either direction. A voltage is induced in a coil when the coil is moved through a magnetic field, and the magnitude of this voltage is proportional to the speed at which the coil is moved. For Faraday's law to be valid, either the coil or the magnetic field (or both) must be in "relative motion" with one another for the induced emf or voltage to be increased with increasing field speed.

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