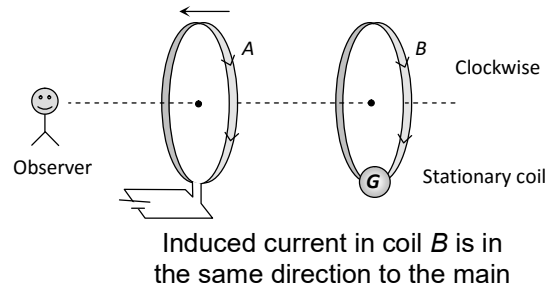
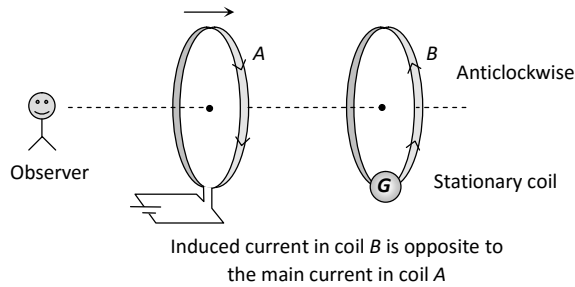


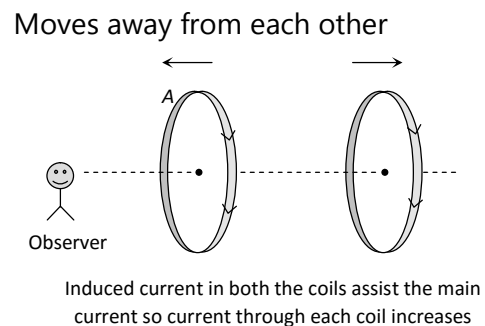
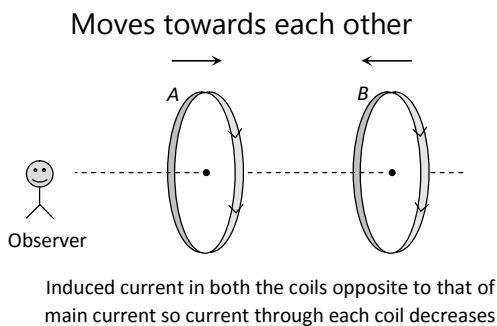
## Some Standard Cases for Questions Based on Direction.

### (1) Relative motion between co-axial circular coils

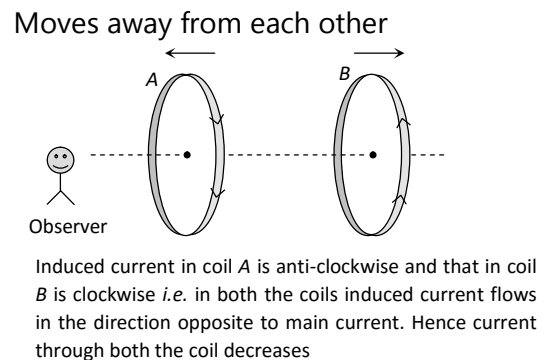
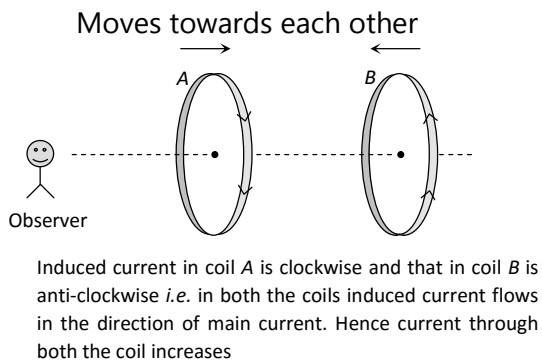
(i) When a current carrying coil moves towards/away from a stationary coil



(ii) When two current carrying coils carries currents in the same direction and



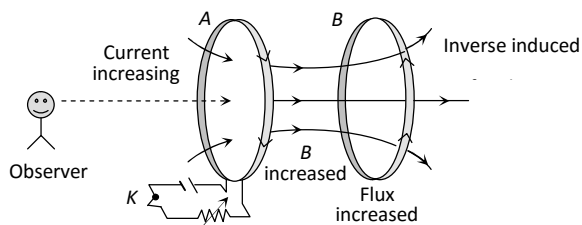
(iii) When two current carrying coils carries currents in the opposite direction and



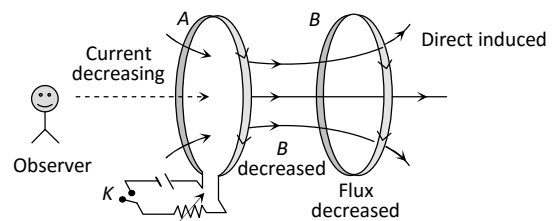
**(2) When the inductive circuits are closed or opened**

If two coils A and B (primary and secondary) are arranged as shown in the figure and if the primary circuit is closed or opened then the direction of induced current in secondary will be as follows

- (i) Current increases in coil A by pressing the key      (ii) Current decreases in coil A by opening the key



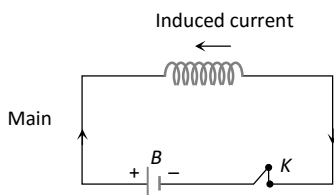
Direction of induced current in the secondary coil is opposite to that in the primary coil



Direction of induced current in the secondary coil is same as that in the primary coil

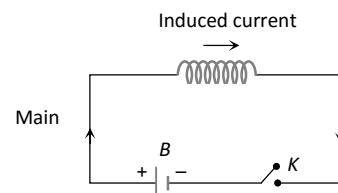
**(3) Increasing and decreasing of current in current carrying coil**

- (i) When current increases by pressing the key



Direction of induced current in the coil will be in a direction opposite to that of main current.

- (ii) When current decreases by opening the key



Direction of induced current in the coil will be same as that of the main current