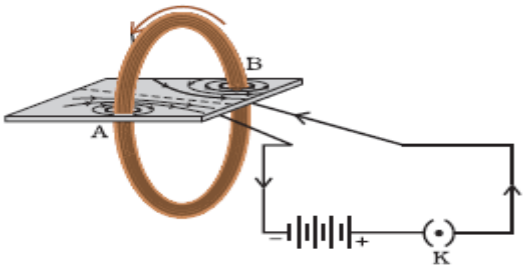
PHYSICS CLASS NOTES

Magnetic field due to a current carrying circular loop.

When current is passes through a circular coil, magnetic field will be produced as shown in the figure.



When the coil is viewed in such a way that the current is in anticlockwise direction, the field lines are appeared to be emerged from that face. If the current is in clockwise direction, the field lines are entered into the loop.

The intensity of magnetic field produced by current carrying loop depends on

- **number of turns of the coil.**
- **Intensity of current.**