

B. Sc. II (Physics)

Home Assignment:

- 1). Explain in your own language why the magnetic force exert sideways deflecting force on moving charge particle is magnetic field.
- 2) Try to find out the magnetic field inside the long straight wire with current using Ampere's law.

$$- [Ans \Rightarrow B = \left(\frac{\mu_0 i}{2\pi R^2}\right) r]$$

where, r is radius of Ampere loop.

R is radius of wire.