

* Electric Fields *

Q-1) How does an object become charged?

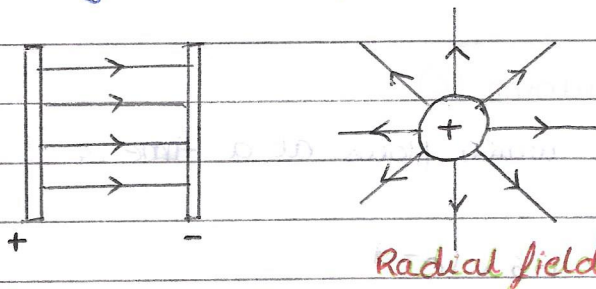
> An object becomes charged when electrons are transferred to or from it. It can be done by:

Friction - rubbing

Induction - without touching

Q-2) What is an electric field?

> An electric field is a region of space where the force of the charge can be felt.



Field line / line of force is path taken by a unit positive charge as it moves when placed in an electric field.

uniform field

has same magnitude

and direction

everywhere

Q-3) What is electric intensity / electric field strength?

> Electric intensity / electric field strength is the force exerted per unit positive charge at a point. (strength of charge).

$$E = F/Q \quad \text{units} = \text{NC}^{-1}$$

$$E = -V/d \quad \text{units} = \text{Vm}^{-1}$$