

## \* Electric Fields \*

Q-1) How does an object become charged?

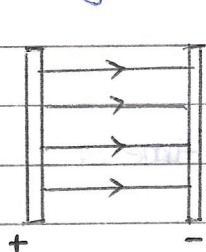
- > An object becomes charged when electrons are transferred to or from it. It can be done by:

**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.

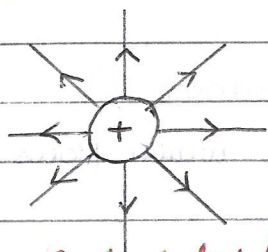


**uniform field**

**has same magnitude**

**and direction**

**everywhere**



**Radial field**

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

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).

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

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