**CHAPTER – 22: ELECTRIC FIELD**

**1. How do you define electric field? What is its unit?**

**Ans**: An electric field is a region of space where there is a force in between the charges.

Mathematically it’s defined as,

The unit of Electric Field is Newton per Coulomb (N/C).

**2. Find the expression of electric field due to a point charge. What will be its expression for a number of point charges?**

**Ans:**

**3. What is an electric dipole? Find the expression of electric field at a distance z along the axis of an electric dipole. How do you define the dipole moment?**

**Ans**:

**Electric Dipole:** An electric dipole consists of two equal and opposite point charges +q and −q separated by a small distance.