Two equal and opposite charge separated by a distance is called an electric dipole. write down the magnitude and direction of electric dipole.?

**Solution:**
The magnitude of electric dipole moment is
$$|\vec{d}| = q \cdot a; \text{ where } q - \text{ charge of the dipole, } a - \text{ the distance between the charges}$$

The direction of the electric dipole moment is from $q_1$ to $q_2$ (from negative to positive)

**Answer:** magnitude of electric dipole moment is q·a, The direction of the electric dipole moment is from negative to positive charge.