

Answer 8:- Electric charge :- is the physical property of matter that causes it to experience a force when placed in an electromagnetic field. There are two types of electric charge, positive and negative, carried by protons and electrons.

Common symbols = q
SI unit = Coulomb

Inductance:- Inductance is the tendency of an electrical conductor to oppose a change in the electric current flow through it. The flow of electric current creates a magnetic field around the conductor.

Common symbols = L
SI unit = henry (H)

Capacitance:- Capacitance is the ratio of the change in electric charge of a system to the corresponding change in its electric potential.

Common symbols = C
SI units = farad.

Conductance:- Conductance is the measure of how easily electricity flows along a certain path through an electrical element and since electricity SI units of conductance is (Siemens/m)

Current:- An electric current is the rate of flow of electric charge past a time point or region. An electric current is said to exist when there is a net flow of electric charge.
SI unit is = ampere.
Symbol = I