

## NOIDA PUBLIC SCHOOL A-78, Sector-23, Noida Affiliation No.2130200 Session : 2023 - 2024 CLASS – XII A (PHYSICS) PT-1 WORKSHEET -1



Q1.Write down SI unit of (i) electric field (ii) electric potential?

Q2.State Gauss, s theorem. Does electric flux through a closed surface depends on shape and size of Closed surface?

Q3.Charge flowing through a conductor is given by  $q=5t^2+6t-10$  coulomb . calculate current flowing At (i) t=2 second (ii) t=5 second?

Q4. The electric potential at centre of a charged sohere is 10 volt .what will be electric potential at (i)at suface (ii) at a distance r/3 from centre?

Q5.Ten cells each of emf E and internal resistance r are connected in series.but by mistake two cells are wrongly connected.what will be net emf and internal resistance of whole assembly?

Q6.Draw graph to show how resistance of a (i) good conductor (ii) semi conductor vary with Temperature?

Q7.Write down expression for electric field and electric potential of an electric dipole ?

Q8.State Wheatstone bridge principle . write down any three application of it ?

Q9.What will be the nature of electrostatic force between two poit charges if

(i) $q_1q_2 < 0$  (ii)  $q_1q_{2,>0}$  (iii)  $q_1q_{2=0}$ 

Q10.Define capacitance of a capacitor.

You are given n capacitors each of capacitance c are first connected in series and then in parallel Find the ratio of net capacitance in series and parallel so obtained.?